QMS® 4060 Print System Getting Started

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1

Introduction

In This Chapter . . .

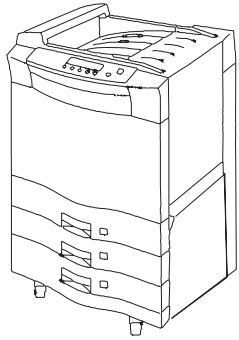
- “About the Printer” on page 1-2
- “About the Documentation” on page 1-3
- “Printer Features” on page 1-11

About the Printer

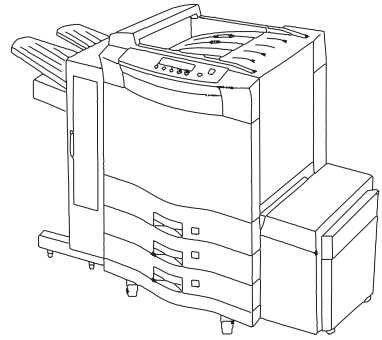
The **QMS 4060 Print System** (base model) is a powerful, but easy-to-use 40-page-per-minute monochrome laser printer offering

- The next-generation Crown operating system
- High-performance processing
- Innovative network features
- Flexible emulations support
- Toner conservation and energy efficiency
- An assortment of printer fonts

The printer and some of its options (shown in the diagrams below) are briefly introduced in the “Printer Features” section of this chapter. Each option is fully described in the *Options* manual.



QMS 4060



QMS 4060 with Optional LCIF and LCOS

About the Documentation

The documentation provides a window into the many capabilities of your printer. The more familiar you are with the documentation, the easier it'll be for you to achieve the results you want from your printer. This section gives you an idea of how we've organized information and which documents you'll probably refer to the most.

Manuals on CD-ROMs

The manuals included on the *QMS 4060 Print System Documentation* and *QMS Software Utilities* CD-ROMs are in Adobe Acrobat PDF format. We've also provided the Acrobat Reader and QuickTime programs on both CD-ROMs. The CD-ROM insert provides instructions on installing them.

About Adobe Acrobat Reader

Adobe Acrobat PDF-formatted manuals give you more flexibility and convenience than do hardcopy manuals when you have to access information. Here are some of the advantages PDF-formatted manuals provide:

- You can store the PDF manuals in a central location for access by anyone on the network.
- You can view and print the manuals on Windows, Macintosh, and UNIX platforms.
- You can view the manuals on web browsers using the Acrobat plug-in.
- You can view the manuals on-screen in different formats (side-by-side or two-up, one page at a time, scrolling two-up, article flow, and zooming capability up to 800%).
- You can conduct full-text searches through all of the manuals.
- You can watch QuickTime video clips on Windows and Macintosh platforms that enhance the text and illustrations for a number of commonly performed procedures. (When installing the Reader, be sure to select the option to install QuickTime.)

- You can print only the manual pages that you need.
- The PDF-formatted manuals have been enhanced for on-screen viewing and navigation. Throughout each manual are numerous hotlinks to cross-reference points. The table of contents and the index are fully hotlinked to their respective page references, and all World Wide Web addresses are linked to their respective home pages.

We hope you enjoy using the Acrobat software to access the information in your manuals. They'll never become dog-eared and yellowed or collect dust on some forgotten shelf with quick on-line access. Your PDF-formatted manuals will empower you to take full advantage of all the capabilities of your printer.

Using Adobe Acrobat Reader

When you use Acrobat to view your manuals, keep the following tips in mind for using some of the navigation features built into Acrobat and your manuals.

- You may view the document in three different styles: page only, with bookmarks, or with thumbnails. Try each to see which you like best. Viewing with bookmarks will enable you to use a quick table of contents to move around the document.
- The toolbar also gives you quick access to page navigation features. For example, you may click a button to advance (>) or reverse (<) one page, go to the start (|<) or end (>|) of the document, or use the history button (<<) to go to the previous pages you viewed. There are other buttons in the toolbar to change view or magnification of the document.
- As you browse through the document the open hand tool will sometimes turn into a pointing hand. You have discovered an embedded link in the manual. You will find these links in the table of contents, index, www addresses, and cross references. Click on the link to jump to a new location.
- You may discover a movie camera icon on Windows and Macintosh platforms. Click the icon to play a QuickTime video clip of the procedure described in the text.

- Use the Acrobat Reader Online Help for a more complete explanation of these features.

A Note on Media

All QMS manuals are also available in hard copy. In the US, call 1 (800) 523-2696 for purchase information. Elsewhere, refer to appendix A, “QMS Customer Support.”

In addition, many applications, utilities, and printer drivers on the *QMS Software Utilities* CD-ROM are available on alternate media. Contact your QMS vendor for media availability and purchase information. You can also download many of these files via ftp from our World Wide Web Server at http:/www.qms.com, our ftp resource at ftp.qms.com, or CompuServe at go qmsprint. Refer to appendix A, “QMS Customer Support,” for sales and support locations and telephone numbers.

Standard Product Documentation

You received the following documentation with your product:

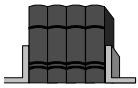
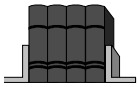
	QMS 4060 Print System Getting Started	You’re looking at this manual right now. The section called “About This Manual,” later in this chapter, tells you what’s included in this manual. » **Note:** *This manual is also in Adobe Acrobat PDF format on the 4060 Documentation CD-ROM.*
 4060 Documentation CD-ROM	***QMS 4060 Print System Operation***	This manual guides you through the day-to-day operation of your printer. It includes information on printing files; adding print media; selecting input and output bins; duplexing; collating; replacing print media and toner; handling, cleaning, and maintaining your printer; improving print quality; and troubleshooting printer problems.

 4060 Documentation CD-ROM	***QMS 4060 Print System Reference***	Refer to this manual as you configure the printer initially and when you change configuration. The instructions guide you through the steps for setting custom values for many printer features, including printer-host communication. Also, it provides information on typefaces and fonts, job accounting, job recovery, printer memory, printer options, and other advanced printer features. The system administrator should get the most use from this manual.
 4060 Documentation CD-ROM	***QMS 4060 Print System Options***	This manual guides you through the operation and installation of all options available for your printer. It includes information optional fonts, optional interfaces, optional emulations, installing new software, large capacity input feeder, output stacker, custom trays, and the CrownCopy option.
 Software Utilities CD-ROM	***QMS Crown Remote Console User's Guide***	This manual describes how to use the Remote Console software to access printer information and change printer configuration settings from anywhere on the network.
 Software Utilities CD-ROM	***QMS CrownNet Setup Guide***	Refer to this manual for complete setup information on the CrownNet Ethernet and optional CrownNet Token-Ring interfaces.

Software Utilities CD-ROM	***QMS CrownNet System Administrator's Guide***	Refer to this manual when configuring the printer's CrownNet Ethernet or optional CrownNet Token-Ring interface, using the CrownAdmin 3 software.
Software Utilities CD-ROM	***QMS Crown Network Notes***	Refer to this manual for network tips. It discusses 3Com 3+Open, Banyan VINES, LAN Manager-based LANs, Novell NetWare, TCP/IP, UNIX, DECnet, and VMS. In most cases, only advanced network users and system administrators need this information. **» Note:** *This manual is provided in encapsulated PostScript (EPS) format. Refer to the README file for information on printing a hard copy of the manual.*
Software Utilities CD-ROM	***QMS Crown Document Option Commands***	This manual lists and explains all Document Option Commands (DOCs), software codes you insert in documents to enable printer features that cannot be accessed by your application or page description language. The DOCs supported by your printer are listed in appendix C, "Document Option Commands," of the *Reference* manual. In most cases only advanced users or system administrators need this information.

Related Documentation

Several other documents are also helpful when using your printer:

 **PostScript Reference Manuals**	Other manuals that contain PostScript information are the *PostScript Language Reference Manual* (Adobe Systems, Inc., Reading, MA: Addison-Wesley, 1990 ISBN-0201-18127-4), and other PostScript Language Reference Manual supplements.
 **Other Reference Sources**	■ Don't forget that your application documentation, your host operating system documentation, and your network documentation all contain useful printing information. ■ Further information on QMS printers is available through the Internet, and Q-FAX. See appendix A, "QMS Customer Support," for details.

About This Manual

This manual contains detailed, illustrated instructions to guide you as you unpack and set up your printer and connect it to a host (such as an IBM or compatible PC or an Ethernet network). In addition, it introduces you to the printer's control panel. This manual is divided as follows. Use the following summary, the table of contents, and the index to locate the information you may need:

1 Introduction	Presents an overview of the documentation and of the printer's features.
2 Setting Up Your Printer	Guides you in selecting a location for your printer and explains how to unpack and set up your printer.

3	**Connecting to a PC**	Explains how to connect the printer to an IBM PC or compatible computer using the parallel port.
4	**Connecting to an Ethernet Network**	Explains how to connect the printer to a network using the built-in Ethernet (CrownNet) port, install the software, and configure both the interface and the network.
5	**Connecting to a Macintosh**	Explains how to connect the printer to an Macintosh using the optional LocalTalk interface.
6	**Using the Control Panel**	Introduces the parts of the printer control panel.
A	**QMS Customer Support**	Provides product sales and support telephone numbers and information on CompuServe, the Internet, and Q-FAX.
B	**Configuration Menu**	Provides a menu chart that shows the Configuration menu.
C	**Installing Options**	Contains the complete installation instructions for the optional large-capacity input feeder (LCIF) and both the 2000-sheet and 3000-sheet large-capacity output stackers (LCOS).

Typographic Conventions

The following typographic conventions are used in this manual:

`Mixed-Case Courier`	Text you type, and messages and information displayed on the screen
`Mixed-Case Italic Courier`	Variable text you type; replace the italicized word(s) with information specific to your printer or computer
UPPERCASE COURIER	Information displayed in the printer message window
lowercase bold	PostScript operators and DOS commands
lowercase italic	Variable information in text
UPPERCASE	File and utility names
↵	Press the Enter key (PC) or Return key (Macintosh)
^	Press and hold down the Ctrl key (PC)
	In Adobe Acrobat PDF versions of the manual, click to play a QuickTime video clip of the procedure described in the text.

» **Note:** *Notes contain tips, extra information, or important information that deserves emphasis or reiteration.*

▲ **Caution**: *Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance.*

WARNING! *Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual.*

ACHTUNG! *Bitte halten Sie sich exakt an die im Handbuch beschriebene Vorgenhensweise, da sonst Verletzungsgefahr bestehen könnte.*

Printer Features

The QMS 4060 Print System provides 40 ppm (pages-per-minute) of letter/A4 size paper at 300 dpi or 600 dpi resolution. In addition, it handles a variety of other paper weights and sizes, including 11" x 17" (279 x 432 mm).

This overview outlines your printer's major features and their benefits. Specific chapters contain more information on each feature. Consult the index or table of contents for guidance in locating this information.

QMS Crown Technology

QMS Crown is a proprietary multitasking printer operating system, which allows QMS to adapt advanced printer software to the evolving printing needs of users in many different environments.

Multitasking

Your printer receives, compiles, processes, and prints multiple documents simultaneously instead of sequentially—true multitasking. The printer has a variety of resources that it uses to print the page. Memory, emulations, and the laser printer engine (the mechanical parts that actually put toner on the page) are all resources of the printer.

User Benefit—With multitasking, your jobs are printed more quickly, and the host is free sooner. This improves printer throughput and increases your productivity.

Emulation Sensing Processor (ESP) Technology

Most printers can recognize only their native command language. Your QMS printer, however, has ESP (Emulation Sensing Processor) technology, which works with most popular commercially available applications. Using a form of artificial intelligence, ESP technology analyzes incoming file data and selects the appropriate printer emulation from those installed on the printer, and processes the print job.

User Benefit—When your printer is in ESP mode, you can easily print PostScript, HP PCL 5e, HP-GL, or Lineprinter documents without changing printer switch settings or sending software commands to accommodate different printer languages.

The QMS 4060 Print System prints almost any file sent in a language ESP technology understands, whether you have one, two, or more hosts, and whether you are communicating through an Ethernet, Centronics or bidirectional IEEE 1284 parallel, or a second network interface. Most users never have to change from ESP mode to another mode.

Simultaneous Interface Operation (SIO)

Although many other printers have multiple interface ports and automatically designate a “hot port,” only one port actively receives data at a time. Your printer is unique because SIO allows all of its interface ports—Ethernet, parallel (Centronics and bidirectional IEEE 1284), the optional serial interface, and one other optional interface (Serial, CrownNet for Ethernet and Token-Ring, DECnet-TCP/IP, or LocalTalk)—to be active at the same time. You can have more than one host computer printing to the printer. Each interface has an input buffer that receives data while another interface is being used to print.

The standard interfaces let you connect to any Ethernet network or directly to an IBM PC or compatible. The printer also works in many other minicomputer, mainframe computer, Macintosh, and network environments.

User Benefit—You can have more than one computer sending print jobs to the printer. Each interface has an input buffer (which may be expanded with additional memory or an optional hard disk) that receives data while another interface is being used to print.

Compile-Ahead Technology

Pioneered by QMS, compile-ahead technology is the temporary storage of page images in a proprietary compressed data format. It makes maximum use of the memory resource. While the engine is busy printing a page, compile-ahead technology uses the available printer memory to prepare the subsequent pages of the document (or the next job). These page images are available as soon as the current page is printed. For example, while the QMS 4060 Print System is actually printing the third page of a five-page document, pages four, five, and the next job in the queue are already compiled into the compressed data format.

User Benefit—With compile-ahead technology you spend less time waiting for documents to print. This increases your productivity.

Compressed Data Formats

Crown printers convert data received by the input buffers into intermediate, compressed blocks until the data is needed for printing. These compressed blocks of data are designed to be processed rapidly by the printer, and many more can be stored in memory at one time than can traditional bitmapped images.

User Benefit—This allows and increases the speed of such printer features as collation and automatic jam recovery.

Automatic Jam Recovery

Crown technology also provides automatic jam recovery. With many non-QMS printers, if a media jam occurs, you must remove the jammed media and then reprint the job. On your printer, if a media jam occurs, once you clear the jam, the printer reprints the jammed page and continues with the print job. This is possible because compressed data formats allow more pages to be stored in memory. The printer remembers the last page printed, pulls the necessary intermediate blocks from memory, and automatically reprints any lost pages.

User Benefit—This saves time and conserves print media.

Context Switching

This feature allows Crown printers to preserve the “state” of a language or emulation — including downloaded fonts, forms, logos, macros, overlays, and other data —when you switch from one printer language or emulation to another. Other printers require repeated downloading of these capabilities each time they are needed, consuming valuable input, processing, and printing time.

User Benefit—This saves time and improves performance.

Media Flexibility

The printer supports print media in 12 different media sizes (A3, A4, A5, Executive, 11”x17", Legal, Letter, B5 (JIS), and B4 (JIS) —in both portrait and landscape orientations from standard trays. The optional custom paper tray supports print media sizes Statement, B4 (ISO) and B5 (ISO), as well as all standard sizes supported on the standard input trays.

User Benefit—You have the option of printing on a variety of media sizes in both portrait and landscape orientations.

PostScript Level 2 Compatibility

The QMS 4060 Print System provides PostScript Level 2 page description capabilities via QMS-developed emulations that are compatible with Adobe’s Level 2 language, while providing additional capabilities. PostScript controls the appearance of text, geometric shapes, and images at the printer. It can rotate, scale, clip, and orient graphic objects on all or part of a page. The printer produces solid blacks and crisp fonts regardless of the point size.

The PostScript Level 2 emulation supports the capabilities of the second generation of Adobe's PostScript software. PostScript Level 2 features include device-independent color, improved memory and resource management, built-in data compression/decompression filters to speed up transmission times and save disk space, optimized graphics and text operators, and patterns and forms support, including pattern and form caching.

Multiple Resolutions

Your printer supports two print resolutions: 300x300 and 600x600.

User Benefit—Two different resolutions allow you to customize the quality of your output according to its use: 300x300 dots per inch (dpi) resolution for most everyday office needs, and 600x600 dpi resolution for PostScript and PCL print jobs that require finer detail, such as good camera-ready copy or for CAD drawings that demand tighter angles.

State-of-the-Art Controller

The QMS 4060 Print System delivers 40 simplex letter/A4 size ppm at 300 x 300 or 600x600 dpi resolution using the new NEC 4300 processor operating at a 100 MHz.

Multi-protocol Support

In addition to the Centronics and IEEE 1284 parallel interface, your printer provides a standard CrownNet for Ethernet interface that allows you to connect to EtherTalk, LAN Manager/LAN Server, NetWare, and TCP/IP networks. The following optional interfaces are available:

- A LocalTalk interface to connect to a single Macintosh or a LocalTalk network
- A CrownNet Ethernet interface
- A CrownNet Token-Ring interface
- A DECnet-TCP/IP Ethernet interface
- A serial interface

Check with your QMS vendor for current availability of optional interfaces. See appendix A, “QMS Customer Support,” for locations and telephone numbers.

You can connect a computer directly to the printer’s parallel interface or use the Ethernet interface to connect to a wide variety of microcomputers, workstations, minicomputers, and mainframe computers on four different networks.

User-Benefit—This support increases printer flexibility and allows for cost and resource sharing across multiple environments.

Advanced Paper Handling Options

Your printer comes standard with three input trays. The optional large capacity input feeder increases the media capacity to 4,500 sheets.

Upper Tray	Holds approximately 500 sheets of Letter/A4 to 11"x17"/A3 paper.
Middle Tray	Holds approximately 500 sheets of Letter/A4 to 11"x17"/A3 paper.
Lower Tray	Holds approximately 500 sheets of Letter/A4 to 11"x17"/A3 paper.
Optional Custom Paper Tray	Holds approximately 500 sheets of Letter/A4 to 11"x17"/A3 paper and Statement, B4 (ISO), B5 (ISO).
Optional Large Capacity Paper Feeder (LCIF)	Holds approximately 2000 sheets of Letter or A4 paper.

Advanced Document Handling Capabilities

Your printer offers automatic collation of a complete document, high-volume duplexing, printer-based page layout (n-up and booklet printing), “sessions,” and background printing. “Sessions” allows multiple documents, including documents from different emulations to be combined in one large document.

User Benefit—Advanced document handling, such as automatic collation for complete document processing increases workflow and reduces user intervention; n-up and background printing offer flexible page formatting to allow for short in-house production runs.

Convenient Control Panel Operation

The user-friendly control panel allows you to configure your printer. The printer uses the control panel to communicate with you by providing messages about its status, including any conditions that require your attention. These messages can be displayed in a user-selectable language (English, French, German, or Spanish). See chapter 6, “Control Panel,” in this manual for complete information on using the control panel.

Four Resident Emulations

Your printer supports printing in HP PCL 5e, HP-GL, Lineprinter, and PostScript emulations.

User Benefit—Most applications can print directly to the printer.

HP PCL 5e Emulation

The printer emulates the Hewlett-Packard LaserJet 5Si with the same fonts and symbol sets. This printer is emulated at 300x300 dpi (bitmap and scalable fonts) and 600x600 dpi (scalable fonts only).

HP-GL Emulation

The printer provides HP-GL plotter emulation (7475A, 7550A, and Draftmaster) at 300x300 and 600x600.

Lineprinter Emulation

The Lineprinter emulation prints simple, unformatted text files at 300x300 and 600x600 dpi. Character sets supported are ASCII, EBCDIC, PC US ASCII, and PC Multilingual.

Resident Typefaces, Fonts, and Symbol Sets

Your printer comes with 42 PostScript typefaces from 12 typeface families (1 OCR-B font is also included for use with the QMS ImageServer and CGM options). All resident PostScript typeface families have multilingual character sets.

The fonts in all of these typeface families can be scaled from 4 points upward, rotated to any angle in 1° increments, pattern filled, halftoned, shaded, shadowed, and cropped, depending on your application software.

Your printer has 16 resident PCL 5e type face families in 25 symbol sets each: 51 resident scalable PCL 5e fonts (including Intellifonts), many in up to 32 symbol sets: and 40 HP-GL fonts.

See chapter 3, “Professional Printing,” in the *Reference* for a complete list of the resident fonts.

Software Loadable System

Your printer has a software loadable system, which allows you to replace or upgrade its system software from a Macintosh or a PC, or over an Ethernet or Token-Ring network. Further enhancements to the system software can be easily installed as they become available from QMS.

» **Note:** *The software loadable system mentioned in this section does not modify the code used by the QMS CrownNet interface card.*

User Benefit—This protects your capital equipment investment.

Printer Job Accounting

Your QMS printer provides job accounting, which can be used to extract information such as paper utilization per user, time consumed servicing print jobs per user, usage of different emulations, connectivity options, frequency of jams, times of peak use, features and options most commonly used (such as duplexing or finishing options), and number, complexity, and size of jobs per user. The QMS 4060 printer controller contains a “real time clock” which automatically stamps the time and date on your accounting information.

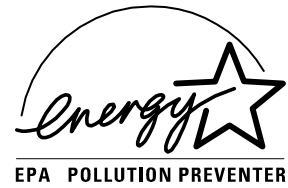
The accounting feature provides the information you need to assess printer use. The accounting is performed by the printer rather than a host, and the extracted information can be uploaded to any host by copying via the FTP **get** command (if your host supports this command).

This information is useful for billing, report generation, and site resource planning. For further information see the “Accounting” section in chapter 4, “Printer Configuration,” in the *Reference*.

User Benefit—You have access to billing and printer management information for cost sharing and resource allocation.

Energy Star Compliance

The QMS 4060 Print System (base model) is compliant with US Environmental Protection Agency (EPA) Energy Star regulations. After a specified length of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within 90 seconds.



User Benefit—The EPA Energy Star Computers program promotes the use of energy-efficient personal computers, monitors, and printers and the reduction of air pollution caused by power generation.

Toner Savings

The Conserve Toner option allows you to increase the life of the printer's toner. You can set Conserve Toner on a per-job basis or for all print jobs. In addition the printer can actually recycle the waste toner through the machine again for increased toner life.

User Benefit—A choice of printing modes allows you to lower printing costs by reducing the amount of toner on the printed page when printing draft copies of documents and increase the life of your toner and cost of consumables.

QMS CrownAdmin Utility Software

Provided in CrownAdmin for Macintosh, Windows, SunOS, Solaris, HP-UX, and AIX formats, the QMS CrownAdmin utility software is a point-and-click tool that allows you to easily configure QMS printers and perform network operations on printers connected to Ethernet or Token-Ring networks. Refer to the CrownNet manuals included on the Software Utility CD-ROM for more information on this feature. Some of the things that you can do through CrownAdmin include the following:

- Configure NetWare, EtherTalk, NetBEUI/NetBIOS, and TCP/IP parameters on the printer's CrownNet interface.
- Use SNMP (where available) for retrieving and setting up printer information.
- Define groups of printers with common characteristics so you can easily make global configuration changes.
- Perform PCONSOLE functions in NetWare environments.
- Download printer system software or fonts.
- Control PostScript files through PostScript Utilities software.
- Format and print files (ASCII and other files).
- Check printer status.
- Use Remote Console.
- Create and edit group configuration templates.

Plug and Play Compatibility

Plug and play is the name of a technology that lets PC hardware and attached devices work together automatically. This technology is implemented in your QMS 4060 Print System when using a Microsoft Windows 95 or Microsoft Windows NT operating system. You simply connect your printer to your PC (“plug it in”) and begin working (“begin playing”). Plug and play automatically selects the correct printer driver for you.

User Benefit—Plug and play reduces the time wasted on technical problems and increases your productivity.

Printer Options

The QMS 4060 Print System offers many options to expand its capabilities. Contact your QMS vendor for purchase information. See appendix A, “QMS Customer Support,” for locations and telephone numbers.

BuzzBox Lite

BuzzBox Lite is an optional printer accessory that warns you with a buzzer and/or a blinking light any time the printer goes off line. This means you’re alerted to print job interruptions such as empty paper trays.

CrownCopy

The CrownCopy option doubles the functionality of the QMS 4060 Print System, allowing it to be a monochrome copier as well as a printer.

Emulations

Optional emulations, such as LN03 Plus, QUIC II, CGM, and XES/UDK are contained on floppy disks and must be downloaded to the printer hard disk.

User Benefit—Extra emulations allow you to print documents created in printer languages other than those resident on the printer.

Fonts

Optional fonts are available in several different formats.

- Special PostScript and PCL downloadable fonts may be available from your QMS vendor. See appendix A, “QMS Customer Support,” for locations and telephone numbers.
- Kanji fonts Ryumin Light-KL and Gothic BBB Medium licensed to QMS by Morisawa and Company, Ltd. and the fonts Mincho Medium, Mincho Heavy, Gothic Bold, and Gothic Heavy licensed to QMS by TypeBank are supported on the internal hard disk.
- Kanji fonts Ryumin Light-KL and Gothic BBB Medium licensed to QMS by Morisawa and Company, Ltd. are available on a SIMM. These fonts are available with the Kanji SIMM Option Kit and they can be printed at a variety of point sizes and in different styles and resolutions.

User Benefit—Optional fonts increase the printer’s functionality and allow you to create more distinctive documents

Hard Disk Expandability

The QMS 4060 Print System includes an internal IDE hard disk and is expandable by connecting up to three external SCSI hard disks. Hard disks provide virtual memory capabilities as well as storage for downloaded character bitmaps, job spooling, outline fonts, forms, and other files.

» **Note:** *See FAQ 7181 for a list of approved hard disks, their manufacturers and part numbers, and the QMS products on which they can be used. You can access QMS FAQs through the Internet at http://www.qms.com/support/supportbase/ or through Q-FAX. (See appendix A, “QMS Customer Support,” to find out how to access Q-FAX documents). FAQ numbers are subject to change, so you may want to obtain a directory of Q-FAX documents before requesting a specific document.*

User Benefit—An internal hard disk decreases printing time and reduces costs of critical on-demand forms applications.

ImageServer

The QMS ImageServer Option is a collection of printer emulations and printer system code designed to provide an interface between document imaging applications and QMS Crown print systems. It enables the QMS 4060 Print System to print images at or near the rated engine speed and eliminates the need for a PC dedicated to rasterizing images.

Interfaces

Your QMS 4060 Print System has one I/O slot to support an optional network, LocalTalk, or serial interface:

- **Network Interfaces**
  - — A second CrownNet Ethernet interface or a Token-Ring interface both allow you to run multiple protocols.

    User Benefit—Network interfaces provide flexibility and fast data transfer in complex network environments.
  - — A DECnet-TCP/IP interface allows your printer to connect directly to DECnet or TCP/IP networks.

    User Benefit—This network inteface provides functionality for two of the most common network environments.
- L**ocalTalk Interface**
  - — A LocalTalk interface allows your printer to connect directly to a single Macintosh or to a LocalTalk network.

    User Benefit—Any Macintosh not on an Ethernet (EtherTalk) network can be connected directly to the printer.
- **Serial Interface**
  - — A serial interface allows your printer to connect directly to a single RS-232C port.

    User Benefit—This interface provides additional functionality by allowing you to connect the printer to a single PC.

Large-Capacity Input Feeder (LCIF)

This option is for high-volume printing. It includes a large-capacity input feeder which accommodates 2,000 sheets of paper.

Large-Capacity Output Stackers (LCOS)

These two options are also for high-volume printing. They include stackers with a capacity to stack 2000 sheets or 3000 sheets of paper. The stackers have the capability to stack face-up or face-down.

QFORM

QFORM is a forms-printing software utility that allows you to produce on-demand electronic forms from QMS Crown cut-sheet laser printers without changing existing lineprinter forms data streams.

User Benefit—Provides and easy migration path for users of legacy line printers to new laser print systems.

RAM (Random Access Memory)

Your QMS 4060 Print System is configured with 32 MB of interleaved RAM. It can support up to 128 MB of RAM with additional matched pairs of SIMMs (single-in-line memory modules).

» **Note:** *See FAQ 7191 for a list of approved SIMMs, their manufacturers and part numbers, and the QMS products on which they can be used. You can access QMS FAQs through the Internet at http://www.qms.com/support/supportbase/ or through Q-FAX. (See appendix A, "QMS Customer Support," to find out how to access Q-FAX documents). FAQ numbers are subject to change, so you may want to obtain a directory of Q-FAX documents before requesting a specific document.*

User Benefit—Your printer's memory can be upgraded as your needs grow.

Security Key

An optional security interface allows you to password-protect the printer's configuration menu. An optional security key is plugged into

the security interface on the back of the printer to set the password, and then removed for normal operation.

User Benefit—This feature allows you to restrict access to printer configuration information to those users with valid passwords, saving time and money and ensuring that default settings are not changed inappropriately.

What's Next?

Chapter 2, "Setting Up Your Printer," explains how to find a good location for the printer, unpack the printer, install toner and developer, and setup and load the standard paper trays.

❖

2

Setting Up Your Printer

In This Chapter...

- “Finding a Good Location,”
- “Checking Shipment Contents,”
- “Unpacking the Printer,”
- “Getting to Know Your Printer,”
- “Installing Consumables,”
- “Loading the Paper Trays,”
- “Printing a Start-up Page,”
- “Installing Options,”

Introduction

This chapter explains how to set up your QMS 4060 Print System for the first time.

It includes information on finding a good location for the printer, unpacking and checking the shipment contents, installing toner and developer, loading the trays, turning the printer on, and printing a start-up page.

Finding a Good Location

Your QMS 4060 Print System operates in any computing environment with the following requirements.

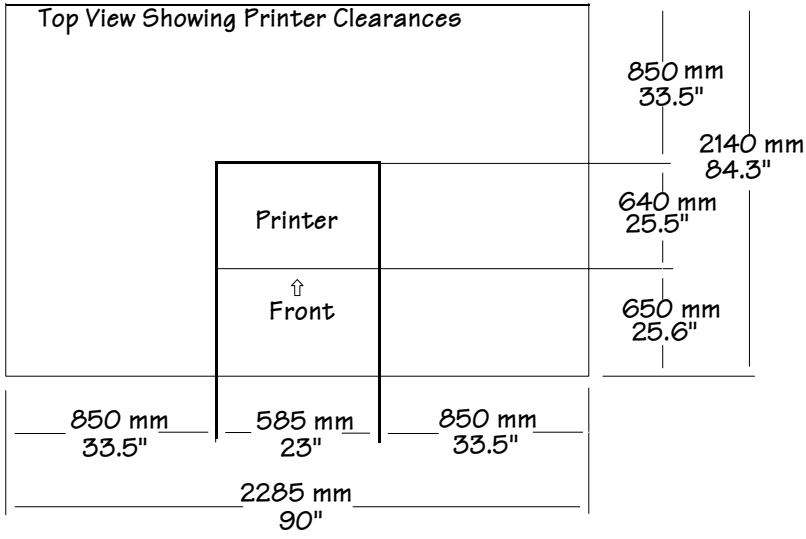
The Printer Must Be Placed...

- Away from cooling and heating sources, extreme temperature changes, direct sunlight, excessive dust, corrosive chemicals or vapors, water pipes, refrigerators, any strong electromagnetic field (such as that created by an air conditioner), and excessive vibration. Don't connect it to the same electrical outlet as noise-generating equipment.
- In an area with a temperature range of 59° - 95° F/15° - 35°C and relative humidity range of 40% -60% (optimal).
- On a hard, level surface capable of supporting the 298lb (135 kg.) printer.
- Close to an easily accessible power supply.
- In a well-ventilated room.

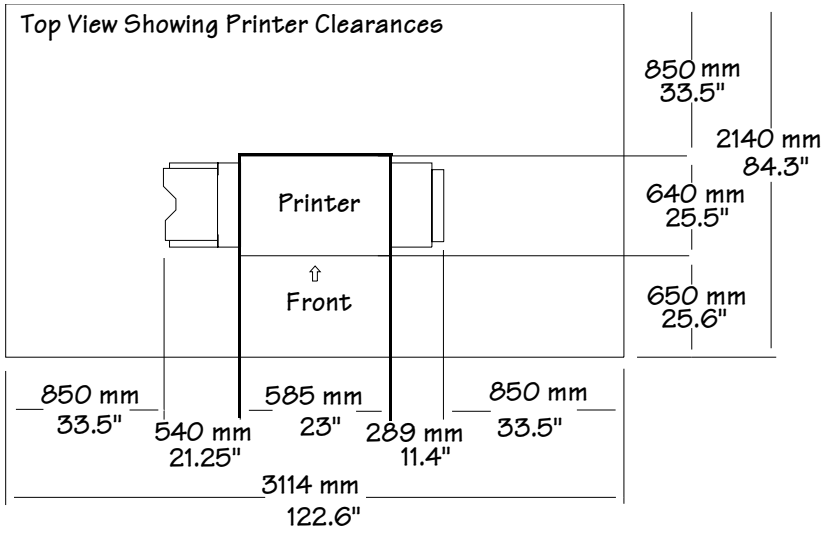
» **Note:** *The clearances shown below allow for easy servicing and maintenance. Under normal operation the rear clearance is required only to be greater than 6 inches/ 15.25 cm.*

Operating Area

Base Unit

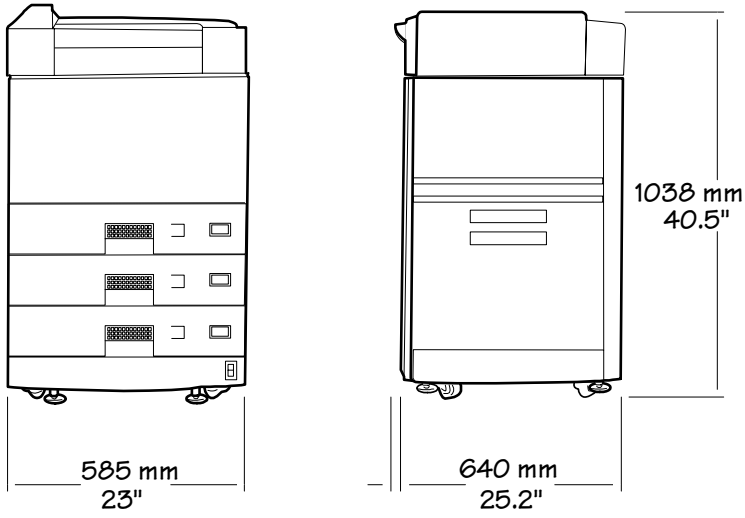


With LCIF and LCOS

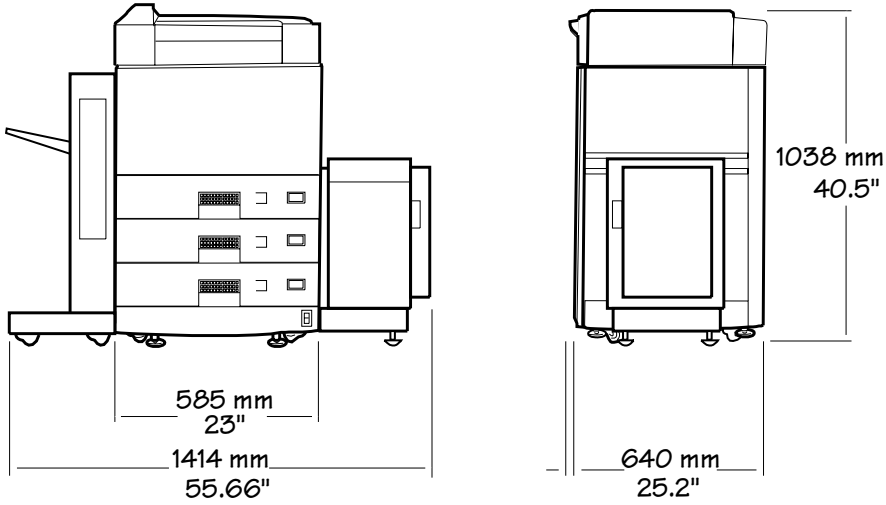


Printer Measurements

Base Unit



With LCIF and LCOS



Power Requirements

Your printer requires a properly grounded AC outlet with a power range of ±10% of the rated line voltage (100-120 V or 200-240 V). Make sure that the capacity of the electrical outlet is at least 1.2 times that used by the printer. Noise-generating equipment should not be connected to the same electrical outlet as the printer. The recommended frequency is 50-60 Hz for 100-120 V systems and 50 Hz for 200-240 V systems.

WARNING: *This product is equipped with a 3-wire grounding type plug, a plug that has a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.*

ACHTUNG! *Das Netzanschlub dieses Garäts is eine geprütte Leitung zu verwenden. Für einen Nennstrom bis 6A ist eine Leitung nicht leichter als H05VV-F3G 0,75 mm² oder HO5VVH2-F3G 0,75 mm² einzusetzen.*

Checking Shipment Contents

In addition to this manual, your shipment consists of the following items:

- QMS 4060 Print System
- Documentation CD-ROM

  —*QMS 4060 Print System Getting Started*

  —*QMS 4060 Print System Operation*

  —*QMS 4060 Print System Reference*

  —*QMS 4060 Print System Options*
- *QMS Software Utilities* CD-ROM
- Consumables Starter Kit (See “Check the Starter Kit,” for contents in kit.)
- Warranty and registration card

» **Note:** *Interface cables aren’t included in the shipment. If you need cables, contact your QMS vendor or a local computer store. Chapter 3, “Connecting to a PC,” , chapter 4, “Connecting to an Ethernet Network,” and chapter 5 “Connecting to a Macintosh,” of this manual specify the type of cable you need.*

Make sure that all items are included in your shipment before setting up your printer. If any items are missing or damaged, contact your shipping company or your QMS vendor. See appendix A, “QMS Customer Support,” for product sales and support information.

Registering the Printer

QMS is committed to developing print systems that offer you flexible, efficient solutions, so we're interested in knowing how you plan to use your printer.

To register by mail, fill out and send in your warranty card. To register by telephone, in the US call QMS at (334) 633-4300. To register over the internet contact QMS at http://www.qms.com, or online at www.qms.com/support/prodreg. In other countries, refer to appendix A, "QMS Customer Support," for the appropriate telephone number.

Unpacking the Printer

The packing materials that protect your printer during shipment—cardboard, polystyrene, tape, and shipping spacers—must be removed before you can use the printer.

Use the following procedures to completely unpack the printer. To ensure that your printer was not damaged during shipment, follow all procedures, including printing the start-up page.

» **Note:** *Save the packing materials in case you have to move or ship the printer to a new location. See appendix C in the Operations guide, "Repacking the Printer," for procedures on moving or shipping the printer.*

▲ ***Caution:*** *Remove all packing materials (explained below) before turning on the printer, or you may damage it.*

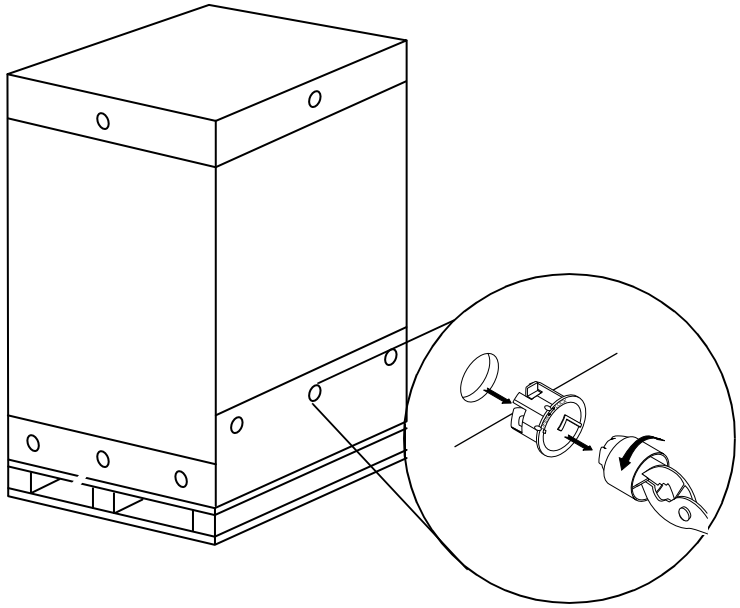
WARNING! *The printer weighs approximately 287 lbs (130 kg). Do not attempt to lift or move it by yourself.*

ACHTUNG! *Der Drucker wiegt ca. 135 kg; bitte versuchen Sie niemals, das Gert alleine anzuheben oder zu tragen.*

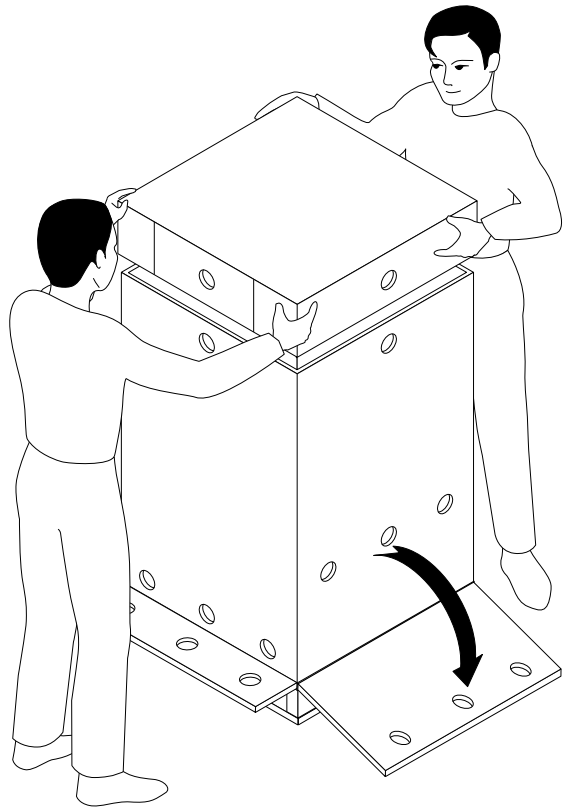
Removing the Box

1 **Turn the plastic lock inserts counterclockwise and pull out as shown below.**

» **Note:** *You may need pliers to turn the knobs. There are 16 plastic lock inserts.*



2 Remove the box lid.

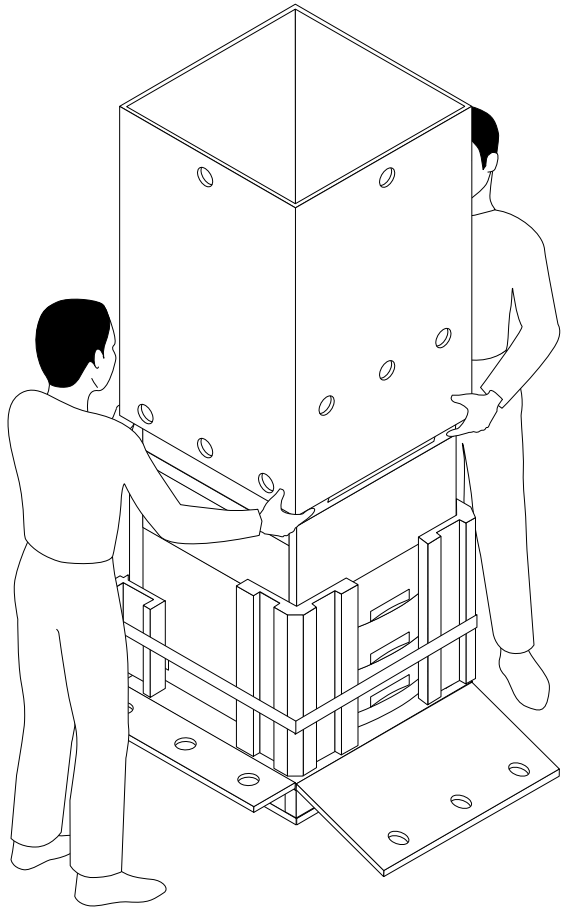


3 Remove the starter kit from the top of the printer box.

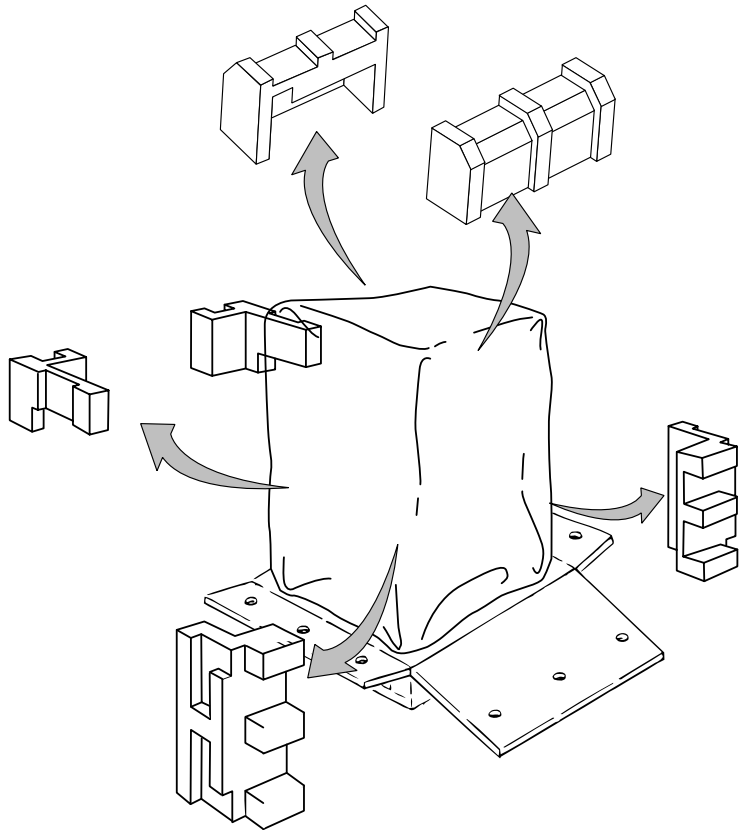
4 Lay the starter kit aside for now.

» **Note:** *The starter kit contains supplies needed to set up the printer for immediate use.*

5 Remove the cardboard sleeve from the pallet.



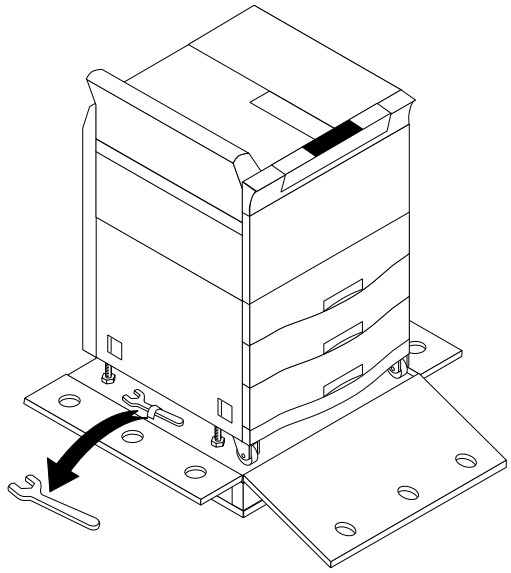
6 Remove the six foam shipping blocks and the plastic cover.



Moving the Printer off of the Pallet

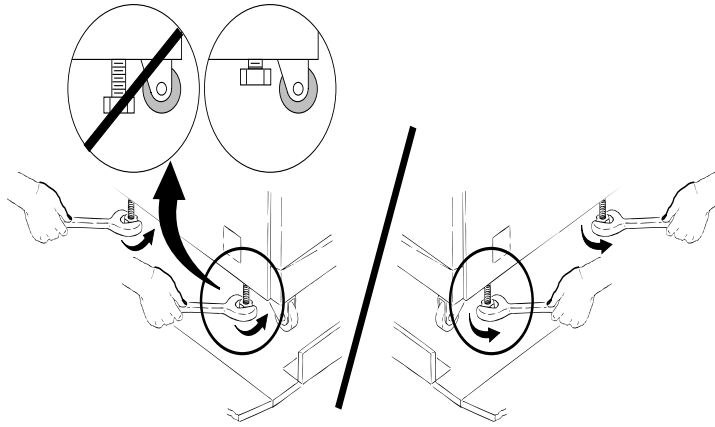
1 Locate wheels and leveling feet on the bottom of the printer.

2 Remove the wrench taped to the pallet.



3 Using the wrench, raise the leveling feet so the printer can roll freely on the pallet.

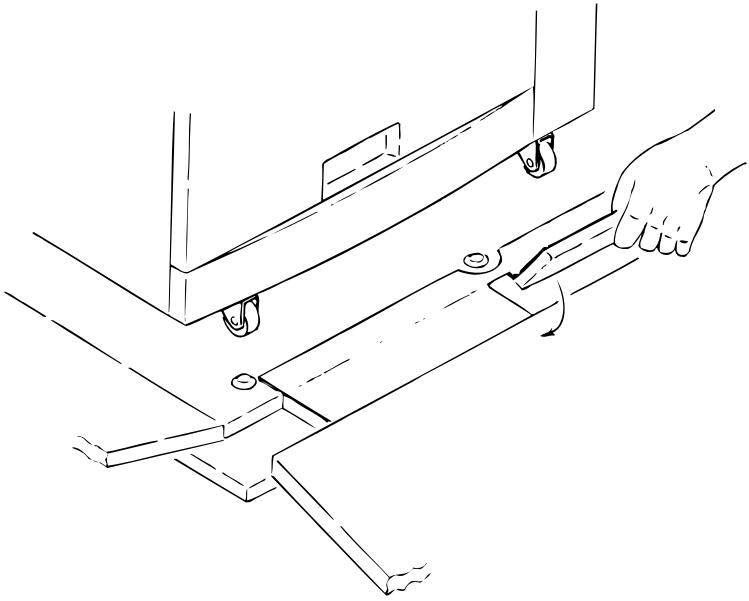
▲ Caution*: Make sure all four leveling feet are fully raised before moving the printer.*



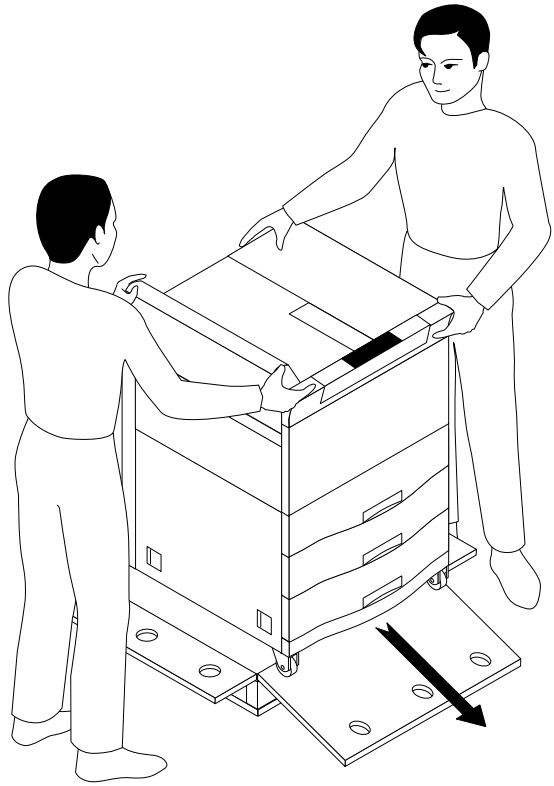
WARNING! *The printer is heavy, so two people should roll it off of the pallet.*

ACHTUNG! *Der Drucker ist schwer und solte von 2 Personen getragen werden.*

4 Flip over the two small wood spacers and place them in the groove at the ramp end of the pallet.

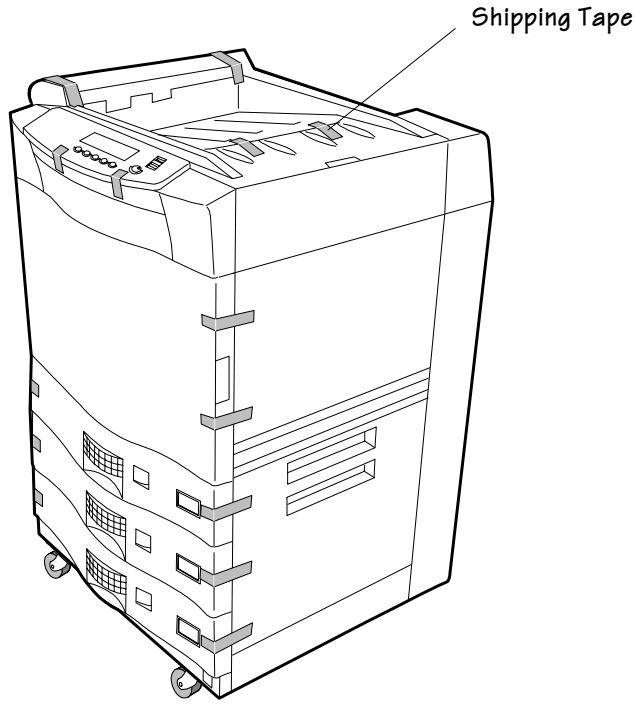


5 Gently roll the printer to the edge of the pallet and down the ramp to the floor.



Removing Shipping Restraints

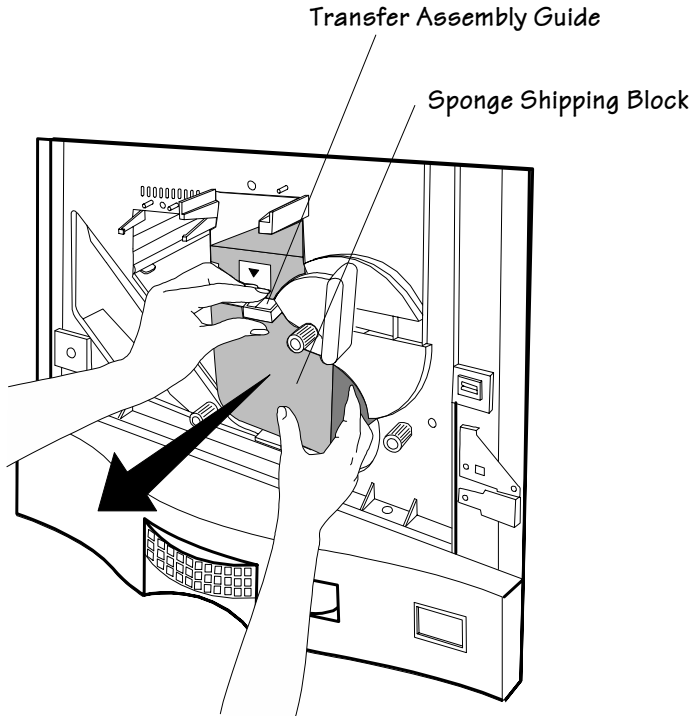
1 **Remove all of the shipping tape from the outside of the printer.**



2 **Open the front door of the printer by gently pulling the right side of the front door.**

3 **Find the two shipping blocks near the center.**

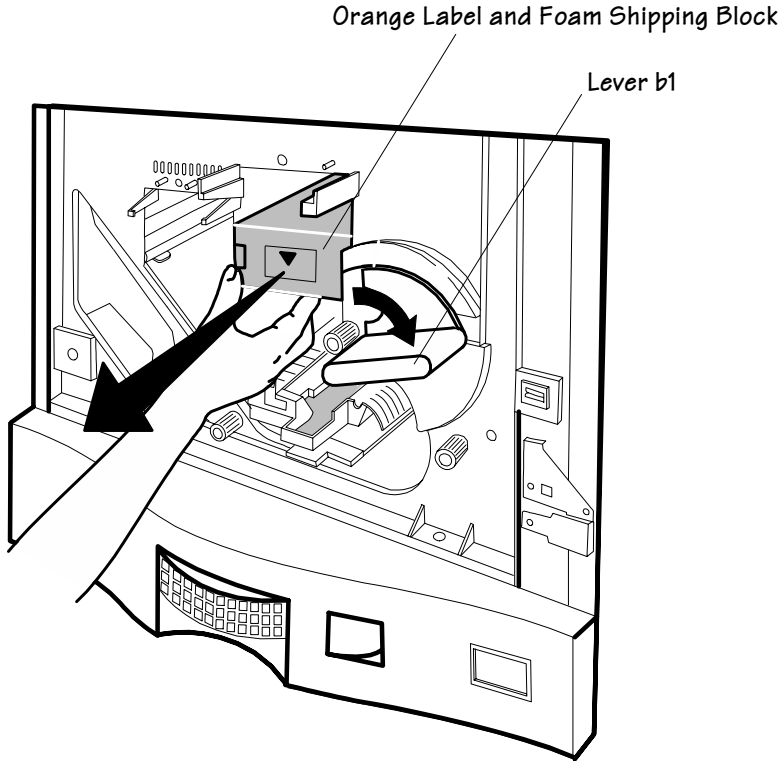
4 While holding the transfer assembly guide, remove the sponge shipping block, then lower the transfer assembly guide.



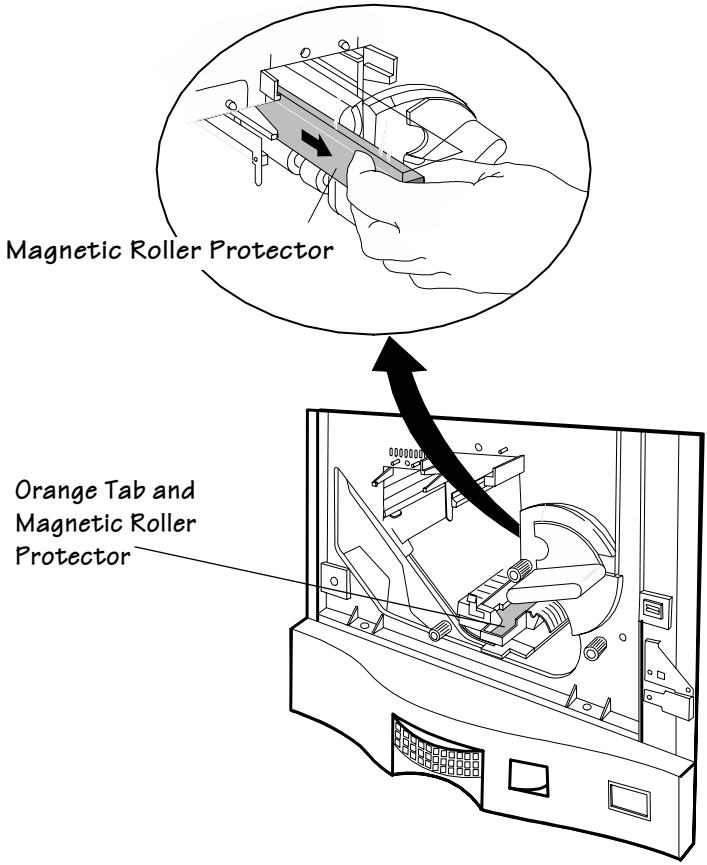
5 Turn lever b1 to the right to the OPEN position.

6 The upper foam shipping block has a string and an orange label attached. Grasp the orange label and the block and pull them toward you.

A black rubber shipping restraint attached to the string and the white foam shipping block will come out at the same time.

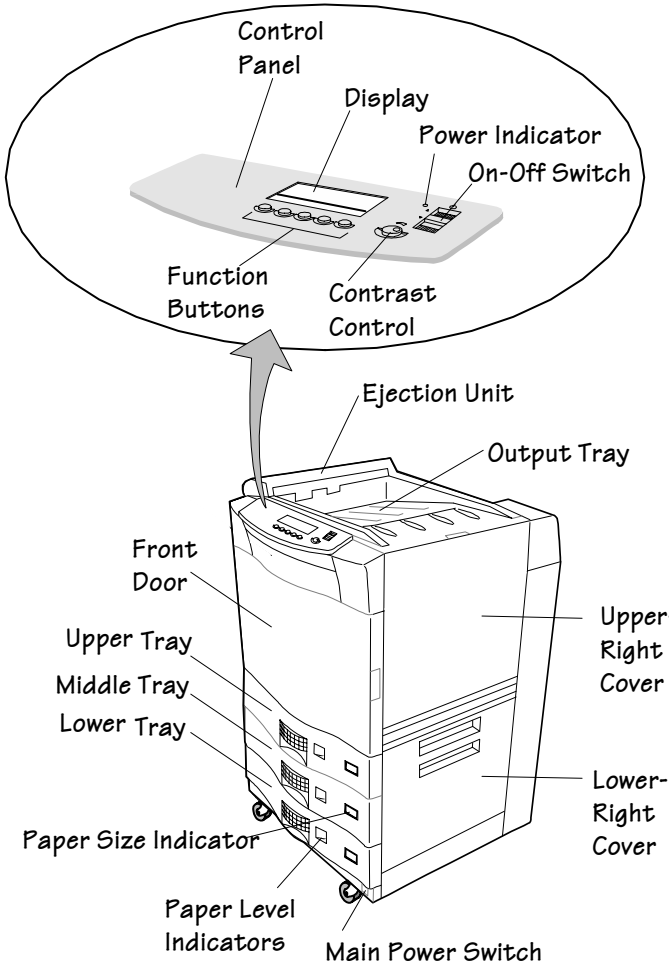


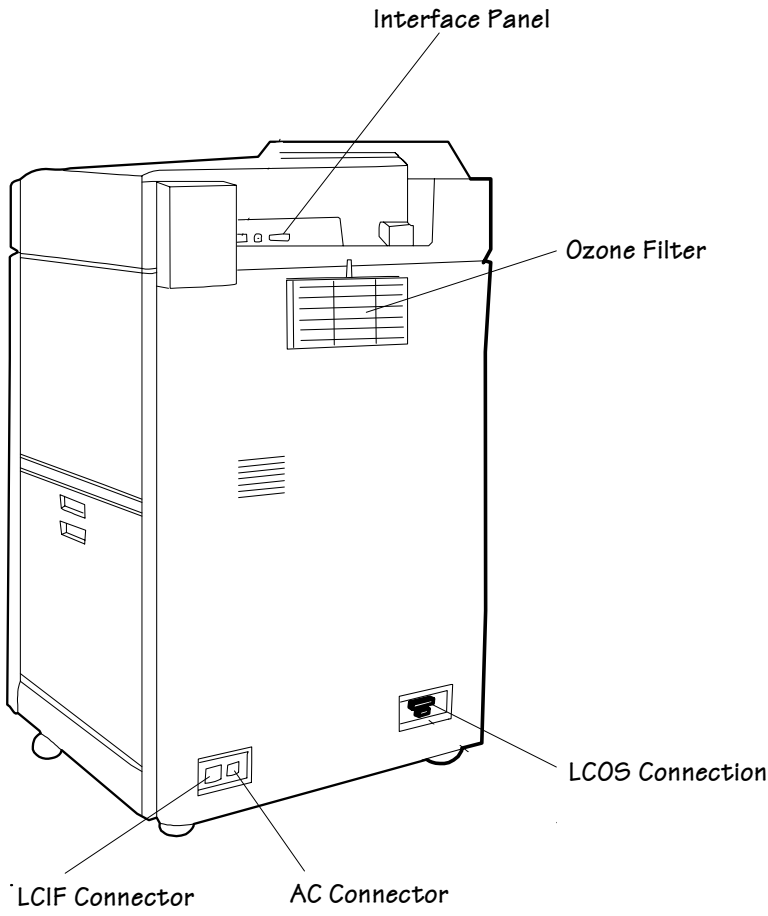
7 Grasp the orange tab on the magnetic roller protector and pull toward you.



Getting to Know Your Printer

Use these illustrations to get acquainted to the external components of your QMS 4060 Print System.




Interface Panel
Ozone Filter
LCOS Connection
LCIF Connector
AC Connector

Installing Consumables

In these procedures you will be installing

- The fuser
- The drum unit
- The transfer assembly
- Developer
- Toner
- The ozone filter

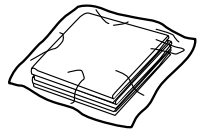
▲ ***Caution:*** *When installing consumables for the first time, you must follow these procedures in correct order.*

» **Note:** *After installing consumables for the first time (except for paper) all subsequent changes of consumables will require you to tell the printer you have performed the maintenance through the configuration menu. See chapter 2, "Consumables," in the Operation manual.*

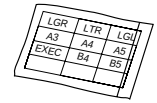
Check the Starter Kit

Check the starter kit for these components. Some of the components are packaged in cardboard boxes for shipment.

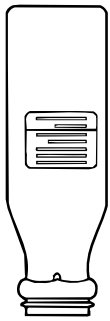
You do not have to unpack these components until you're ready to install them.



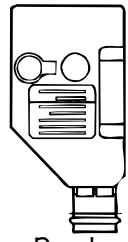
Cleaning Cloths



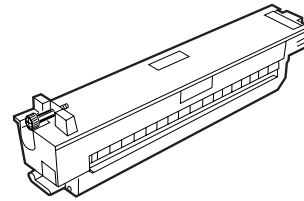
Paper Size Cards



Toner

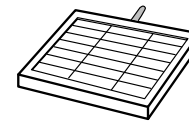


Developer

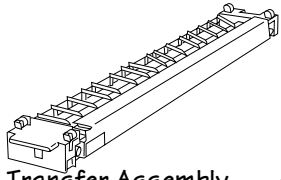


Fuser

Keyed Power Cable

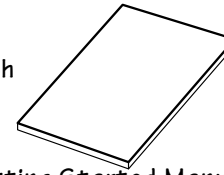


Ozone Filter

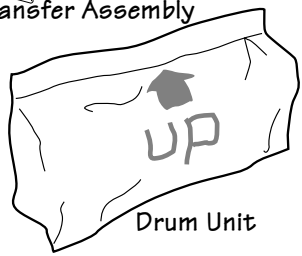


Transfer Assembly

Cleaning Brush



Getting Started Manual

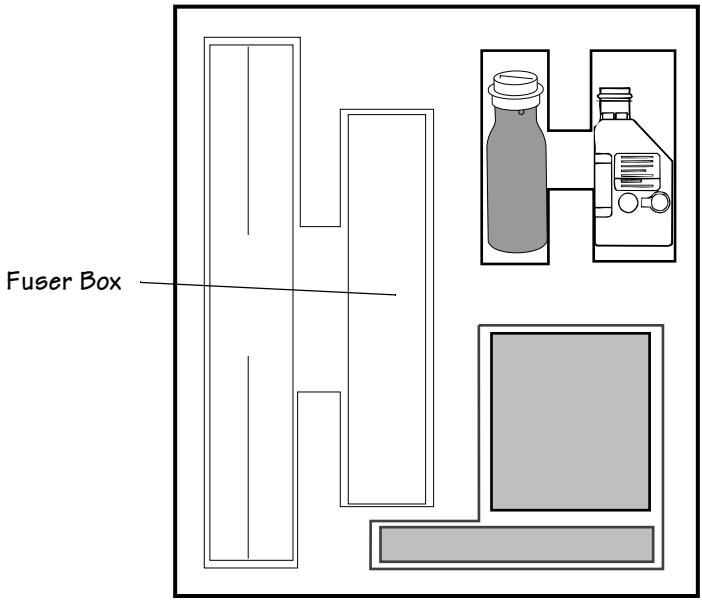


Drum Unit

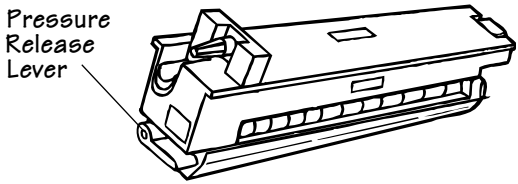
4060 Documentation CD-ROM
Software Utilities CD-ROM

Installing the Fuser

1 **Find the fuser box in the starter kit, remove the box from the starter kit and unpack the fuser from the box.**



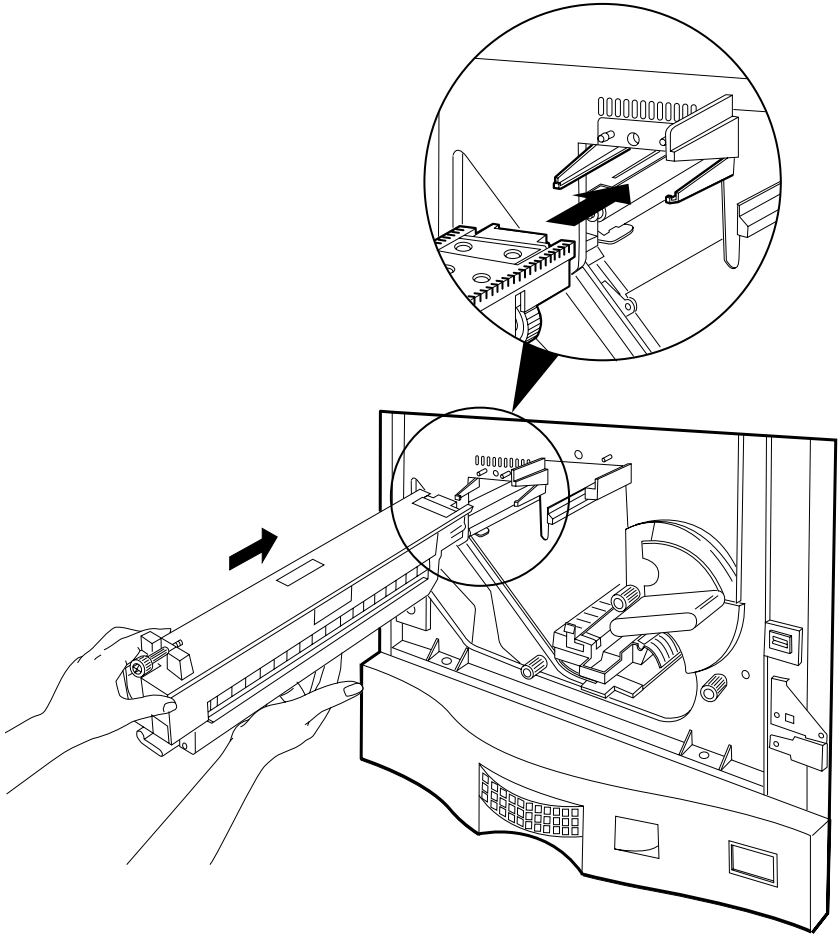
2 **Remove the fuser from its packaging.**



3 **Open the front door of the printer.**

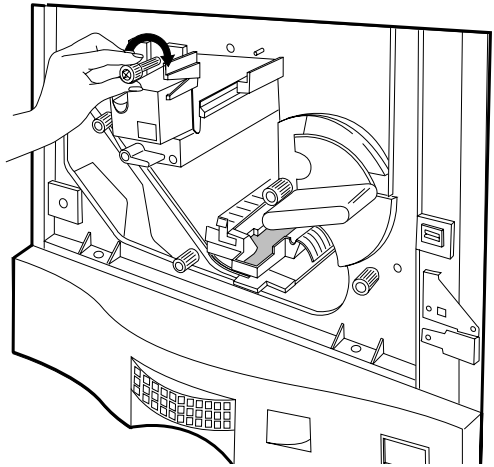
4 **Turn lever b1 to the right to unlock the internal components.**

5 Insert the fuser into the printer by aligning the fuser with the guides inside the printer.



6 Gently push the fuser all the way to the back of the printer to make sure that it is properly seated.

7 Lightly push on the fuser and tighten the thumbscrew by turning it clockwise to lock the fuser in place.

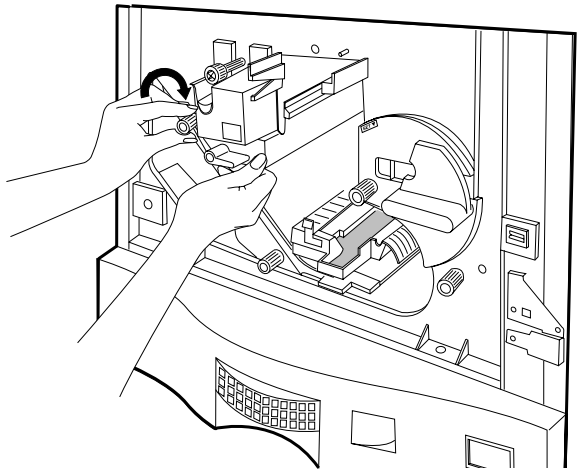


8 If the fuser does not seat properly

a Hold the fuser up against the printer using light pressure.

b Carefully rotate the decurler roller knob clock wise until the fuser seats flush against the printer.

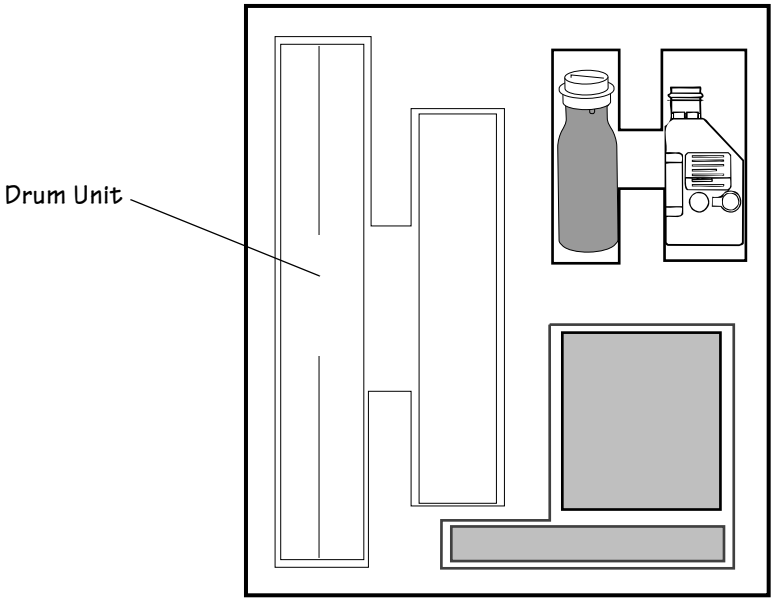
c Repeat step 7.



Installing the Drum Unit

▲ ***Caution:*** *The drum unit is sensitive to bright light. Do not remove the drum unit from its protective bag until you are ready to install it. Store the cartridge in an environment that is not subject to extreme heat or humidity, salty air, or corrosive gases, such as aerosols.*

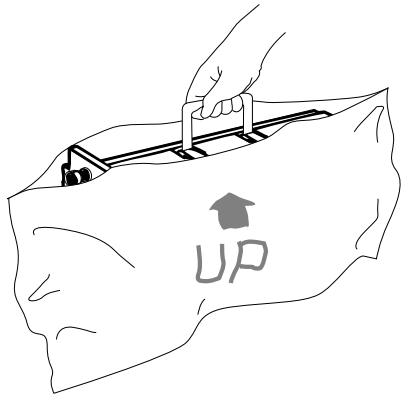
1 Remove the bag containing the drum unit from the starter kit.



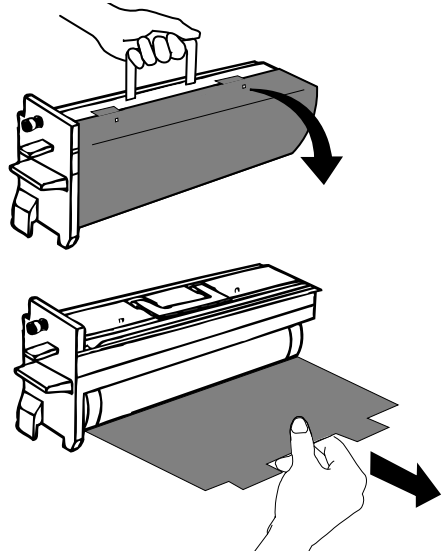
2 Open the protective aluminum bag by tearing open the top (there's a notch on the bag to help you start tearing the bag).

3 Remove the drum unit by grasping the blue handle on top of the unit.

» **Note:** *After removing the drum unit from its protective bag, do not touch the OPC drum on the unit because it may deteriorate the drum and reduce print quality. Also, we recommend that you keep the bag for use if you should have to remove the drum from the printer.*

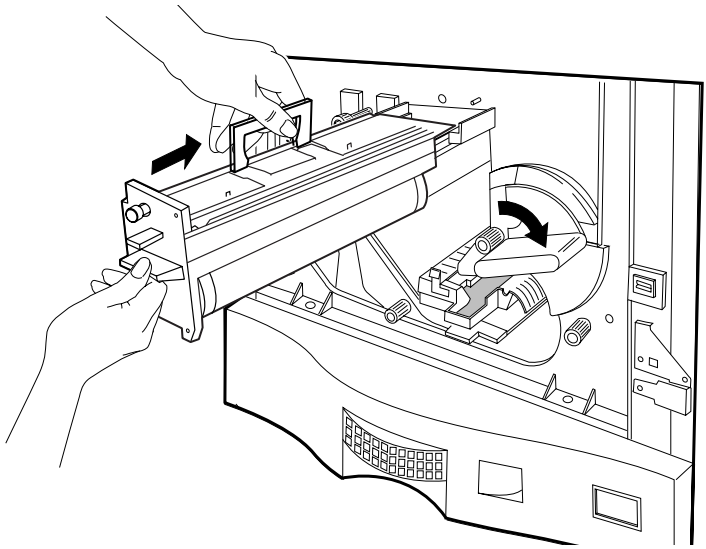


4 **While holding the drum by the handle, set it on a solid surface and carefully remove the protective cover from the drum.**

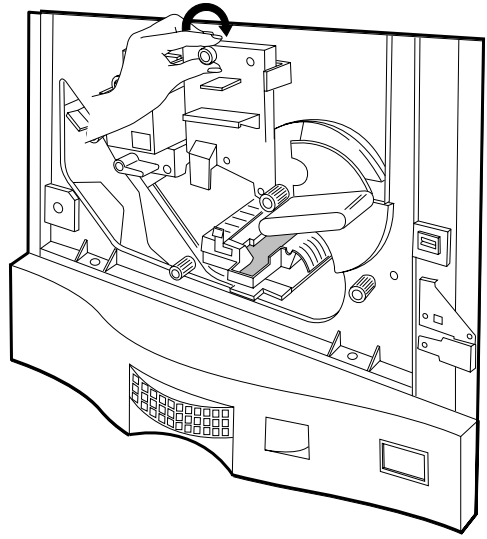


5 **Make sure lever b1 is turned to the right to the open position.**

6 Use the drum handles on the top and front to insert the drum unit along the guide rails and gently push it all the way in to make sure it is seated.

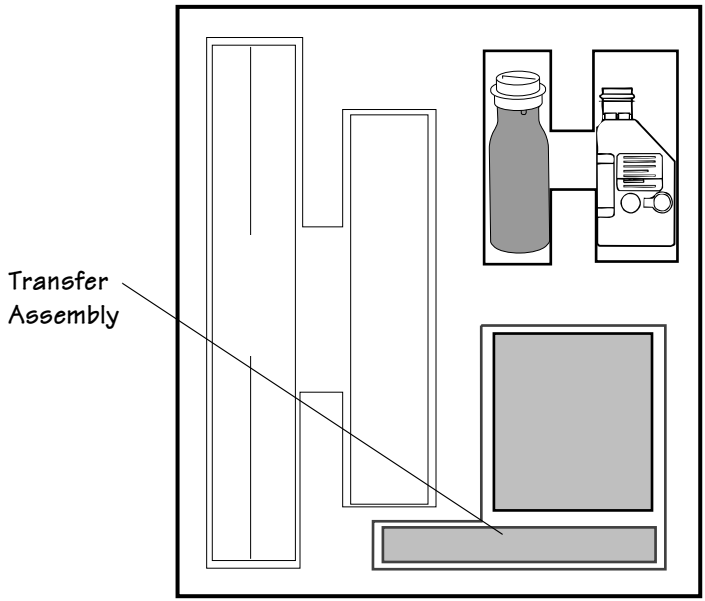


7 Gently push on the drum unit and turn the thumbscrew clockwise to lock the drum unit in place.



Installing the Transfer Assembly

1 Remove the transfer assembly from the starter kit and remove it from its shipping box and cover.



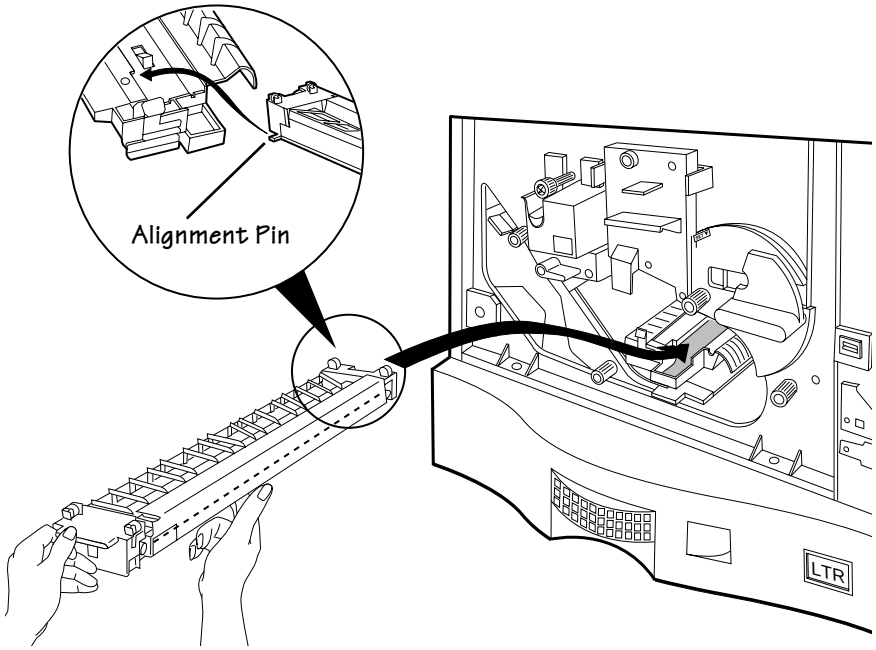
2 Make sure lever b1 is turned to the right.

3 Insert the transfer assembly into the transfer assembly guide.

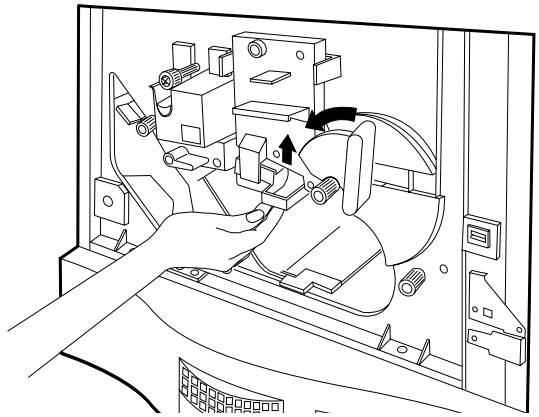
a Locate the alignment pin on the end of the transfer assembly.

b Insert the alignment pin of the transfer assembly into the left rail of the transfer assembly guide at a slight angle.

c Slide the transfer assembly all the way into the transfer assembly guide until it clicks into place.



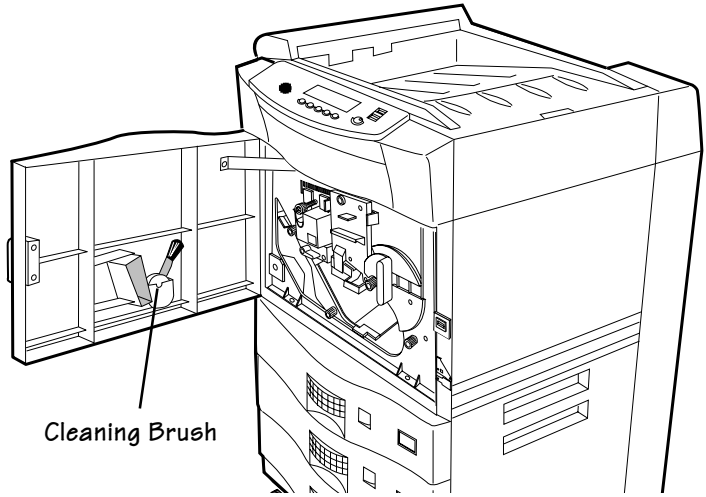
4 Lift the transfer assembly guide and lock it back into place.



5 Turn lever b1 to the left to the SET position.

6 Place the cleaning brush from the starter kit in the front door cleaning brush holder.

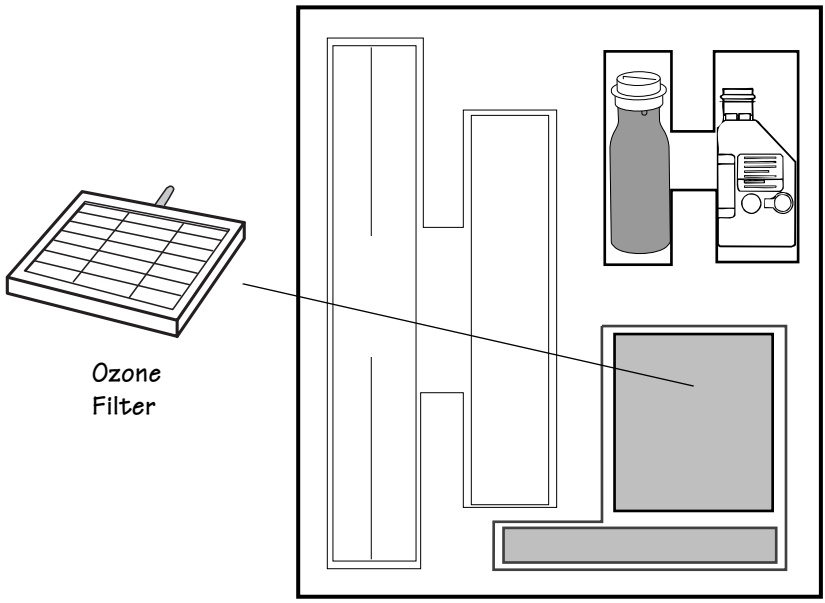
You will use this to clean the transfer assembly when doing maintenance.



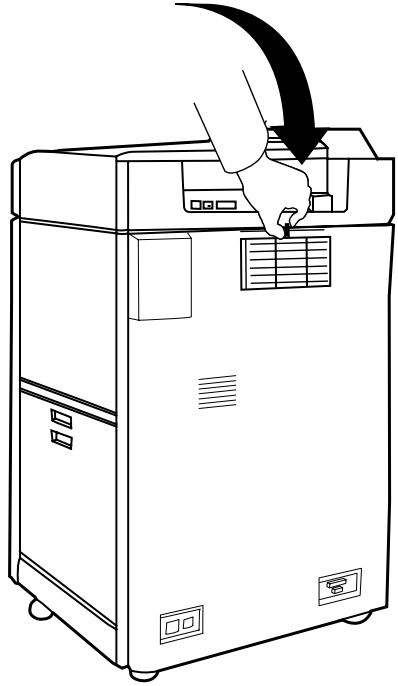
7 Close the printer's front door.

Installing the Ozone Filter

1 Remove the ozone filter from the starter kit, and take it out of its packaging.



2 Slide the ozone filter into the ozone filter holder on the rear of the printer.

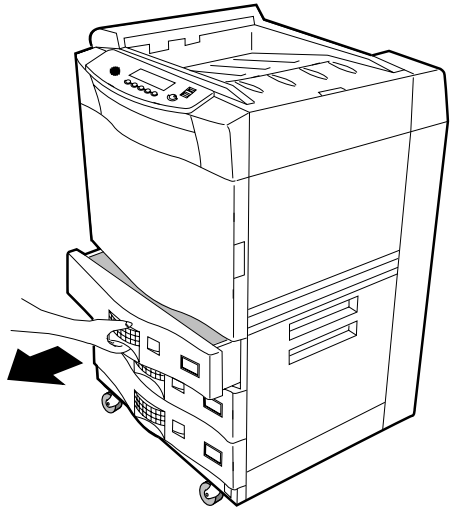


▲ ***Caution****: Failure to install the ozone filter could result in poor print quality and possible damage to internal printer components.*

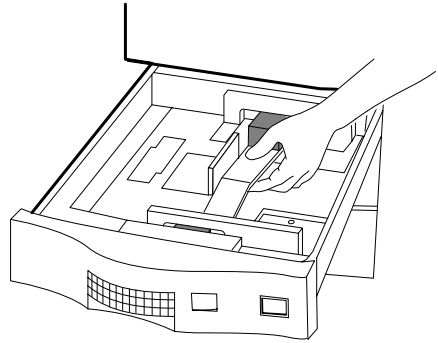
Removing the Paper Tray Shipping Restraints

Before you load paper, you must remove the shipping restraints from the trays.

1 Open the top tray by grasping the handle and pulling out.



2 Gently pull out the cardboard and foam shipping blocks from the center of the tray.



3 Close the tray.

4 Repeat these steps on the other two trays.

5 Place some letter size paper in one of the trays.

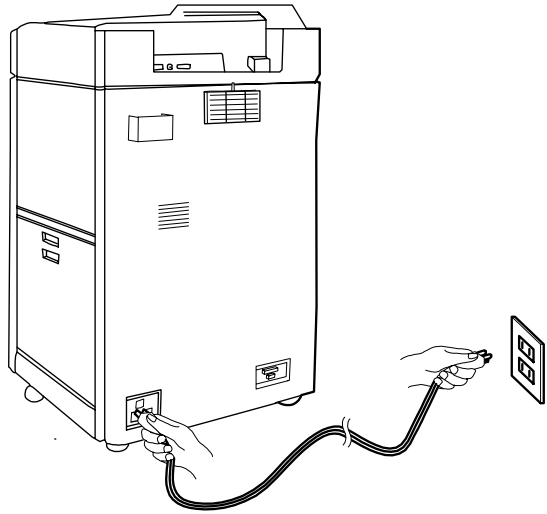
» **Note:** *This paper is only for use for starting up the printer. See "Loading the Paper Trays," for more information on setting up the paper trays.*

Powering On the Printer

» **Note:** *The power cord for your QMS 4060 is keyed to operate only with this printer. Other power cords will not fit this printer.*

▲ **Caution***: Make sure that the printer power switch is turned off.*

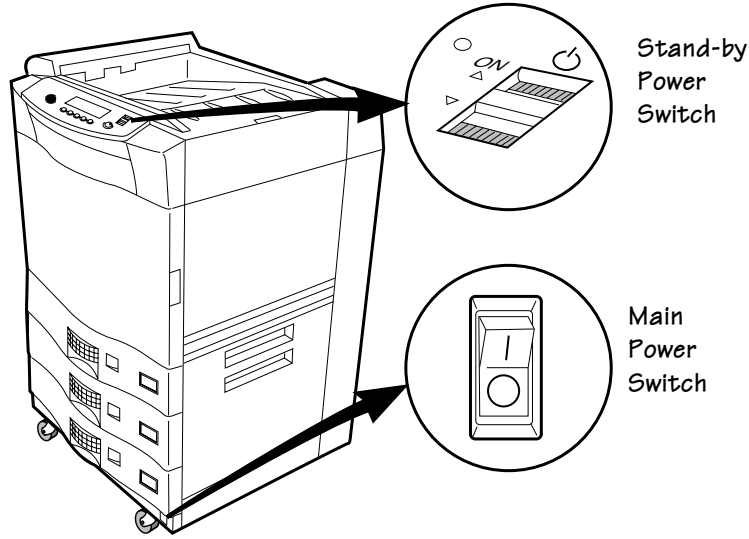
1 Plug the power cord into the connector on the rear of the printer on the lower left-side.



2 Plug the opposite end of the power cord in a grounded AC outlet.

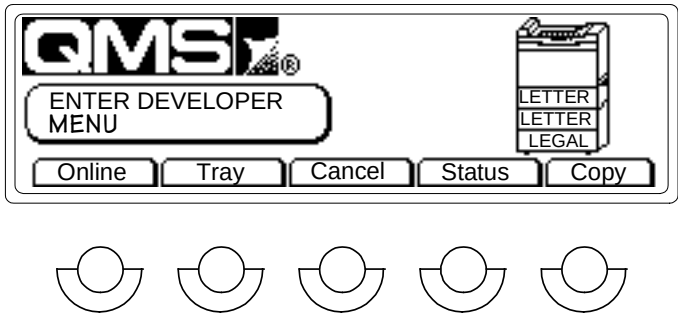
3 Turn on the printer.

The main power switch is located at the front of the printer on the bottom-right side. The stand-by switch is located on the front panel.



» **Note:** *Under normal circumstances you will use the stand-by switch to turn the printer on and off. The main power switch can be used when you need to move the printer, store the printer, repack the printer, or other circumstances.*

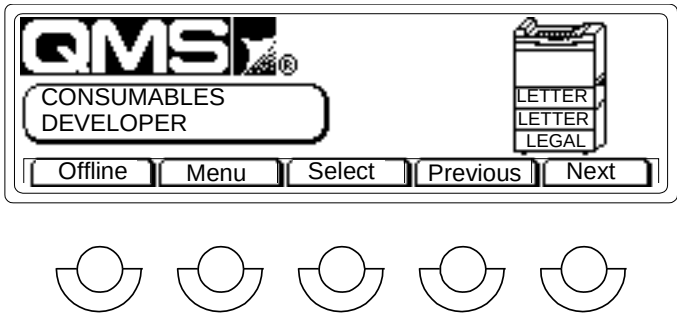
After a brief warm-up (less than 2 minutes) the printer will give you a message on the display message window.



▲ **Caution:** *Before adding developer and toner to the printer you must follow this procedure to power on the printer. The printer needs this sequence to properly prepare the developer and toner hoppers. Failure to power on the printer could result in service problems with your QMS 4060 Print System.*

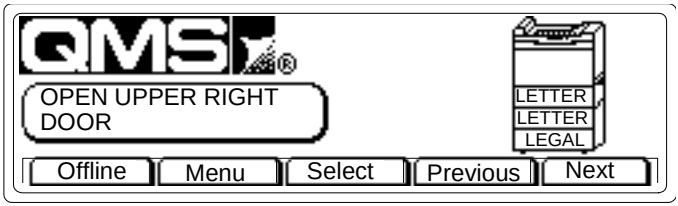
4 Press the Online button and then the Menu button on the control panel.

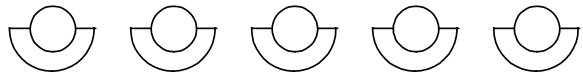
The display message window shows:



5 Press the Select button.

The display message window shows



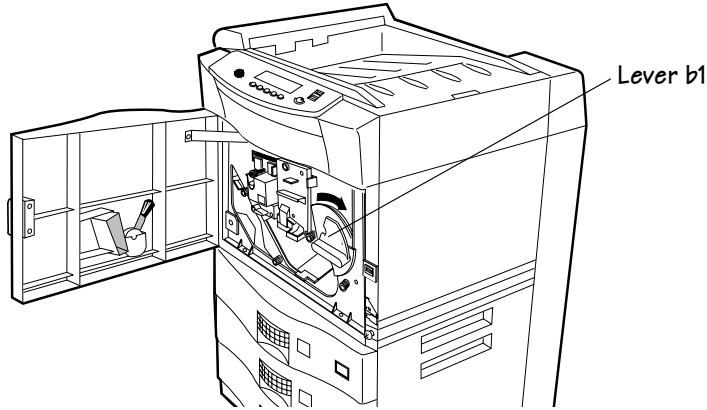


6 Continue with the next procedure.

Removing the Plastic Developer Cover

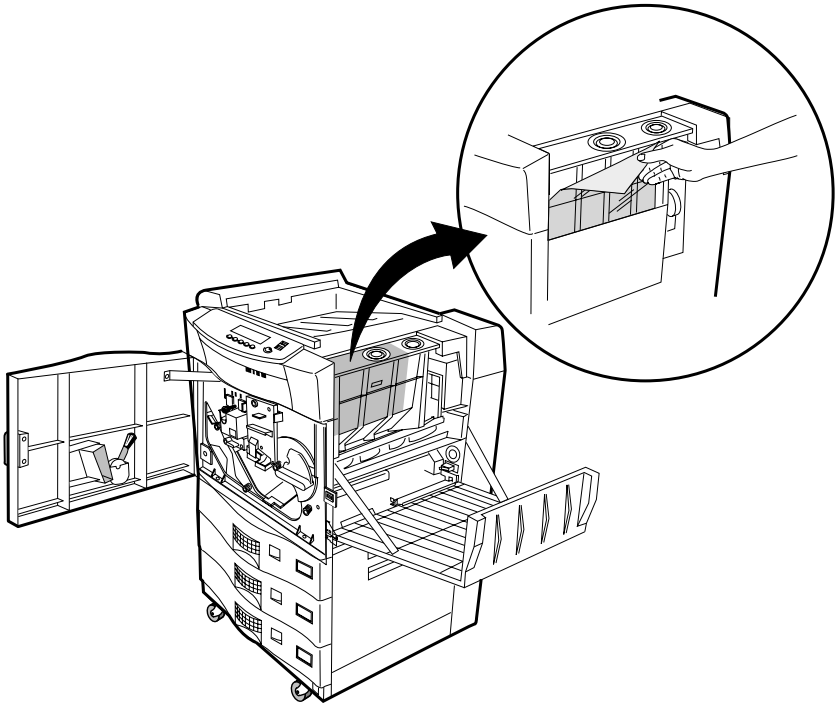
1 Open the front cover of the printer.

2 Turn lever b1 to the right to the OPEN position.



3 Open the upper-right door.

4 **Slowly and firmly lift up then pull down and out at an angle to remove the plastic protective cover.**

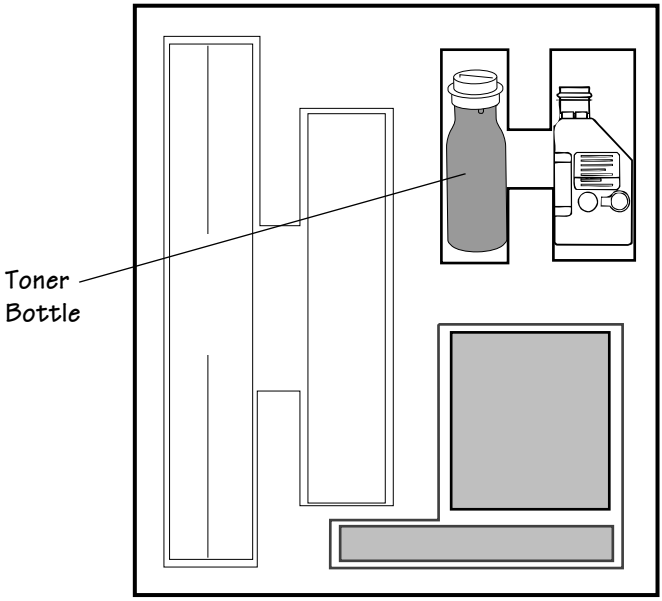


5 **Turn lever b1 left to the SET position.**

6 **Close the front door of the printer.**

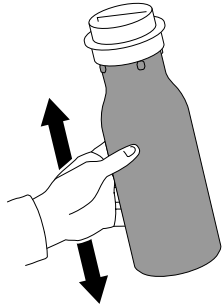
Installing Toner

1 **Remove the toner bottle from the starter kit and remove it from its packaging.**

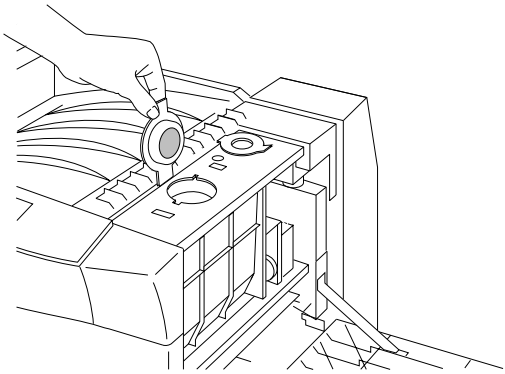


» **Note:** *The life of the initial toner bottle is less than 6000 pages.*

2 **Shake the contents of the toner bottle to loosen any toner that has settled and packed during shipment.**

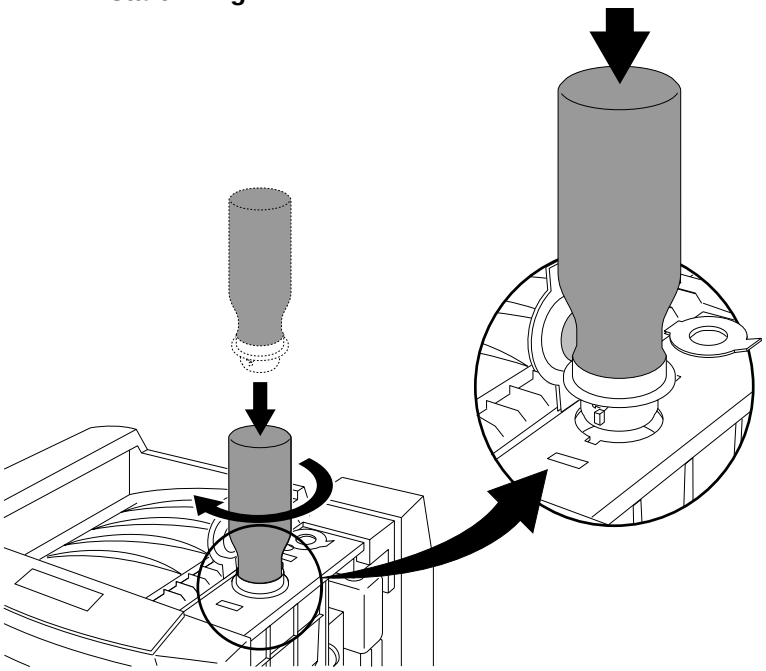


3 Open the toner fill lid.



4 Line up the guide pins on the bottle with the guide pin slots on the toner fill opening.

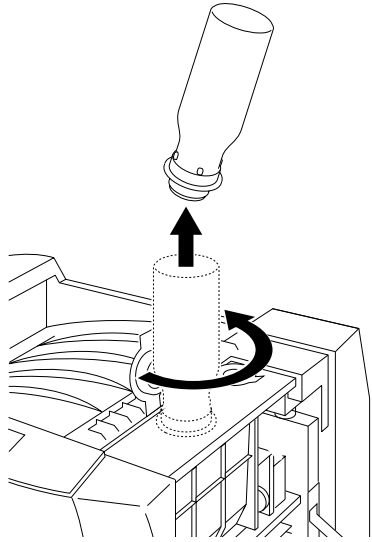
5 Insert and turn the toner bottle clockwise 180° (1/2 turn) to start filling.



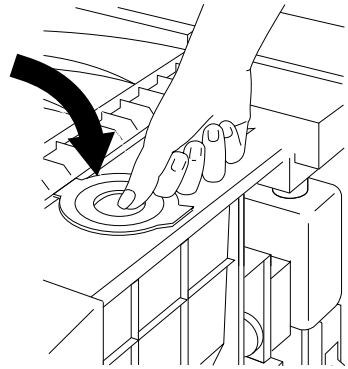
6 **Tap the toner bottle several times to make sure all of the toner has emptied.**

» **Note:** *It takes about 30 seconds for the bottle to empty.*

7 **When the bottle is empty, turn the toner bottle 180° (1/2 turn) counter-clockwise and lift up to remove.**



8 **Close the toner fill lid.**



9 Dispose of the toner bottle.

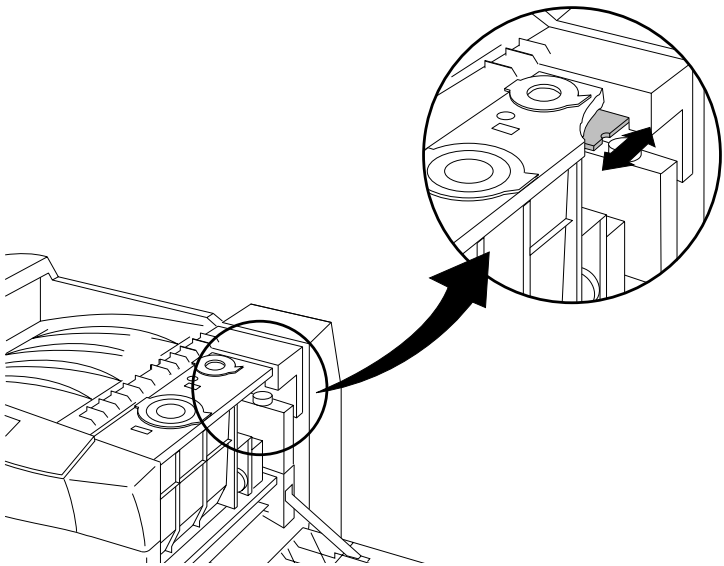
» **Note:** *The toner bottle is made of recyclable materials. Dispose of it in accordance with local regulations.*

Toner Recycling

Toner recycling will add 20-30% of life to a toner bottle. You have the option of recycling waste toner or disposing of it. For optimal print quality, we do not recommend recycling.

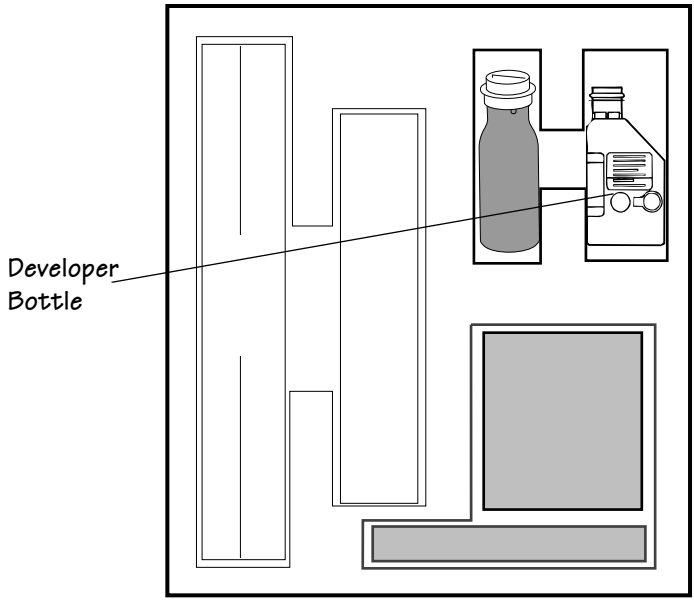
With toner recycling enabled, you may experience lighter print with occasional small voids. See chapter 2, “Consumables,” in the *Operations* manual for more information on toner recycling.

The toner recycling control can be enabled or disabled by moving a plastic slide located directly over the toner collector bottle. If it is pushed to the right, toner is recycled. If it is pushed to the left, waste toner collects in the toner collector bottle for disposal.



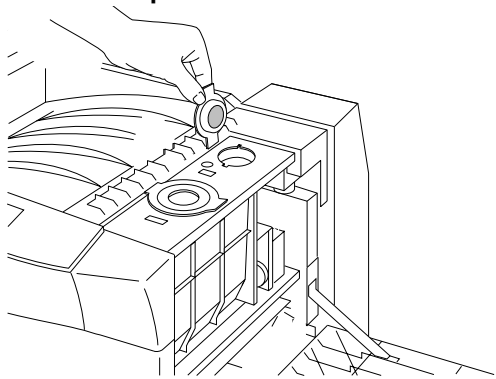
Installing the Developer

1 Remove the developer bottle from the starter kit and remove it from its packaging.



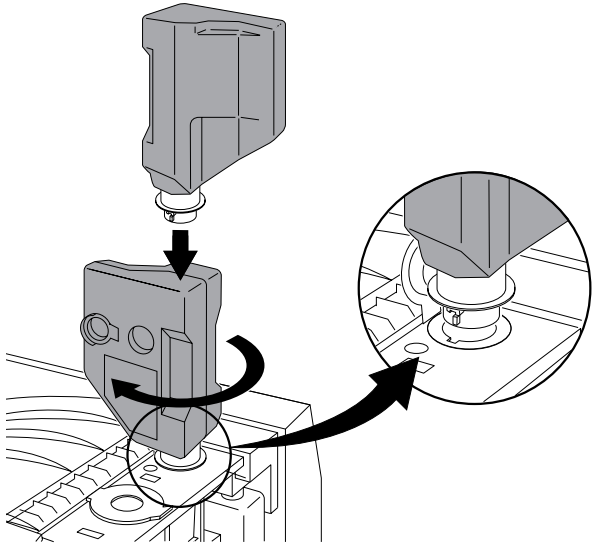
2 Check the message window. After you opened the upper right cover earlier it should display

3 Open the developer fill lid.

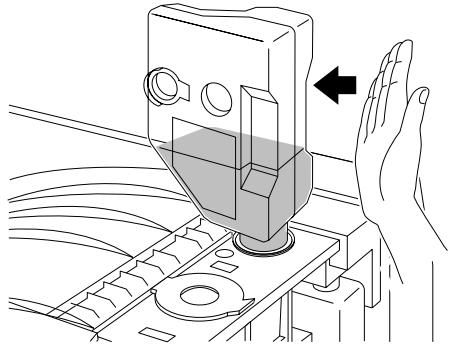


4 Line up the guide pins on the bottle with the guide pin slots on the developer fill opening.

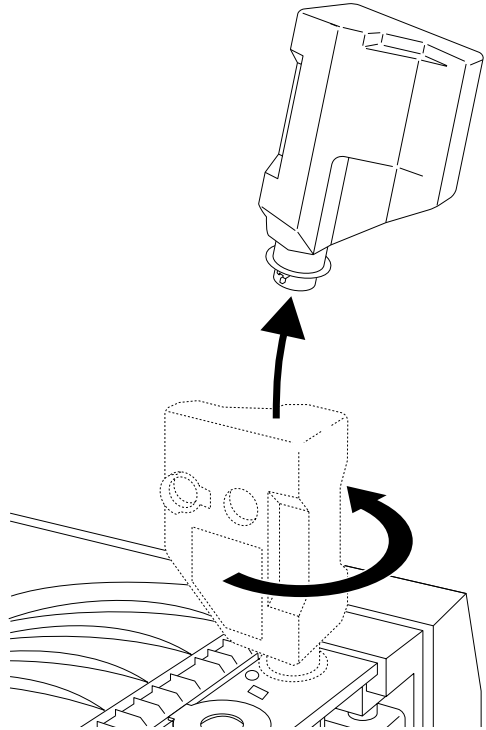
5 Insert and turn the developer bottle clockwise 180° (1/2 turn) to lock the bottle in place and begin filling.



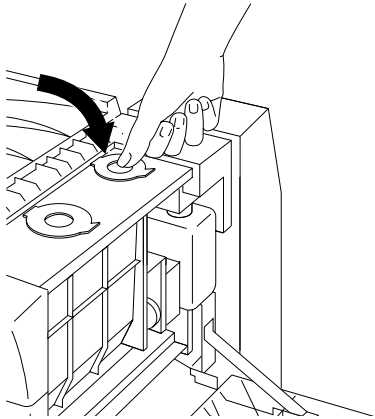
6 When the bottle is empty, gently tap it several times to make sure all of the developer has loaded.



7 Turn the developer bottle 180° counterclockwise and lift it up to remove it.

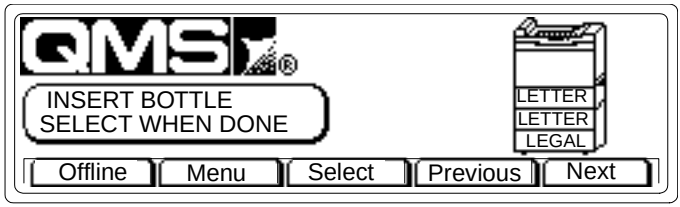


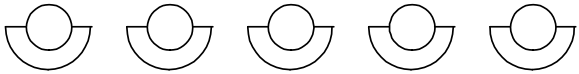
8 Close the developer fill lid.



9 Press the Select button on the control panel.

The display message window shows

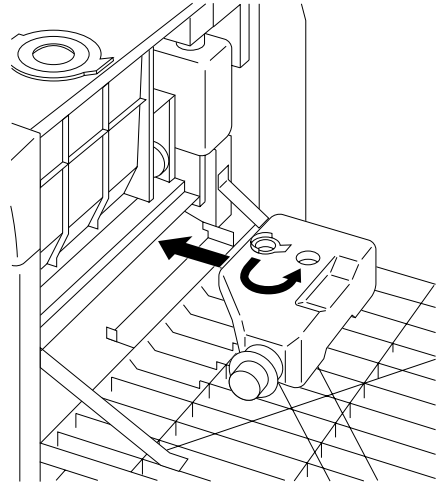




10 Remove the small cap from the side of the developer bottle.

11 Turn the cap around and place it in the storage position on the bottle as shown.

12 Insert the developer bottle into the storage position.



▲ **Caution:** *In the storage position the developer bottle is used whenever the developer hopper is purged. Make sure the cap is removed and the bottle is in the correct position.*

13 Close the upper-right cover.

14 Press Select on the control panel.

15 Press the Offline button on the control panel to place the printer on line.

The printer will begin an automatic cycle to set the toner density. After about two minutes you should get a start-up page.

Loading the Paper Trays

The QMS 4060 Print System includes three 500-sheet adjustable paper trays. All three paper trays hold either A3, A4, A5, B4, B5, Executive, 11"x17", Legal, or Letter size paper. The printer automati-

cally pulls paper from the tray. Loading paper in the tray involves the following steps:

- Opening the tray
- Setting the correct paper size for the tray (if necessary) and paper size indicator
- Loading paper in the tray
- Closing the tray

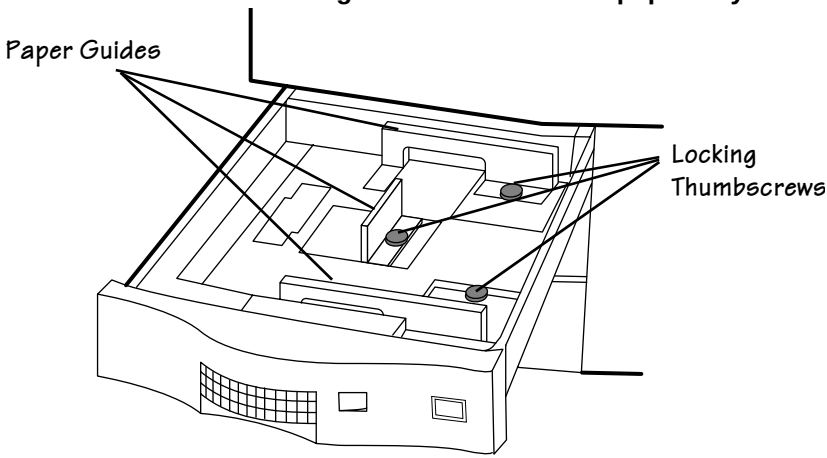
» **Note:** *Ensure that the tray size matches the paper size (for example, letter paper must be loaded only when the tray is set to letter size). Since the paper tray sends a paper size signal to the printer controller, using a wrong size paper will cause jamming or the image positioned incorrectly on the page.*

Setting Up the Paper Size for a Paper Tray

» **Note:** *All three paper trays are set up for letter-size printing from the factory. If you need to configure the trays for any other paper size, then follow this procedure. Otherwise, go ahead to the next section.*

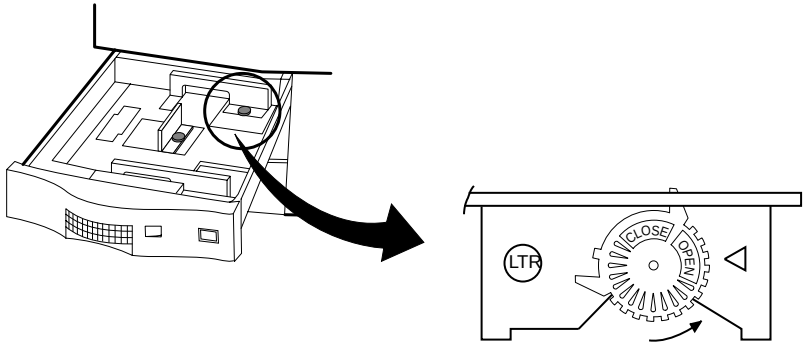
1 Open the tray that you wish to change paper size.

2 Locate the blue locking thumbscrews in the paper tray.



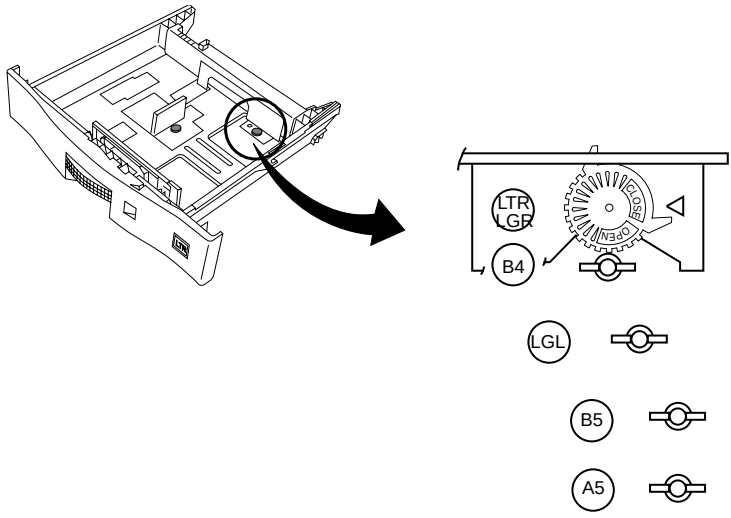
3 Turn the thumbscrew counter-clockwise to unlock one of the paper size guides.

You should be able to lift up and remove the paper size guide after unlocking it.

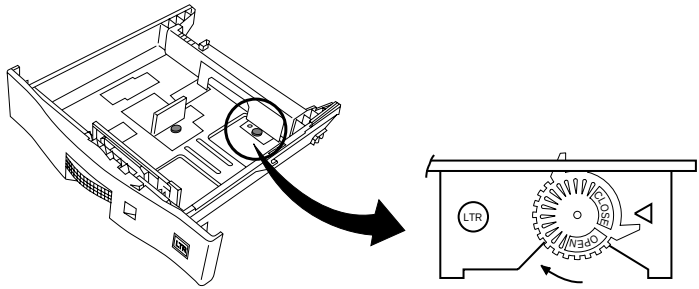


4 Move the paper size guide to the appropriate slots to align it with the paper size marker.

You should be able to read the paper size (A3/A4, LTR/LGR, LEG, EX, B4, B5) in the small alignment holes built into the paper guide.



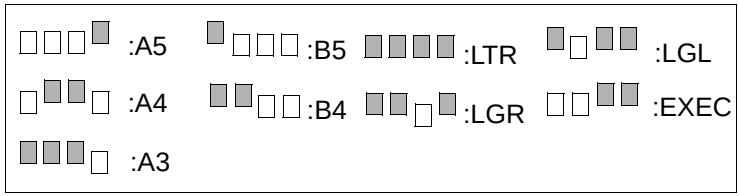
5 Turn the dial to clockwise to lock the paper size guide.



6 Repeat steps 1-5 for the other two paper size guides.

» **Note:** *If you are setting up the tray for 11"x17" (ledger), the left paper guide is stored in a slot near the front section of the tray.*

7 Set up the tray paper size tabs on the rear of the paper tray. Use the following chart for reference or the label attached to the paper tray.



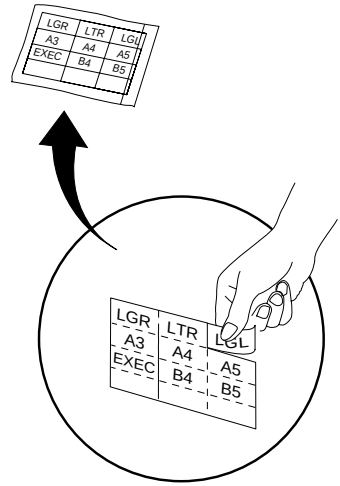
- Tab is moved forward
- Tab is moved backward

8 Adjust the other paper trays, if necessary, using the same procedures.

Setting Up the Paper Size Indicator

1 Open the plastic bag in the starter kit containing the paper-size cards.

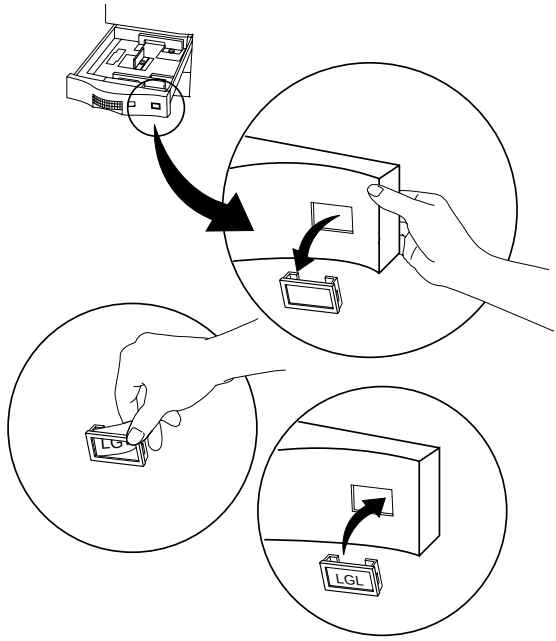
2 Break off the label that indicates the correct paper size for each tray.



3 Pull out each tray and push out the paper-size holder.

4 Place the paper-size lable in the paper-size holder of each tray.

5 Replace the paper-size holders.



Load Paper in the Tray

1 Unwrap the paper and note which side the arrow points to.

» **Note:** *Paper is packed in reams of 500 sheets. Do not unpack the paper above the printer as this might cause particles to fall into the printer components. Note the arrows on the wrapper. They show print side of the paper.*

2 Remove the top and bottom sheets.

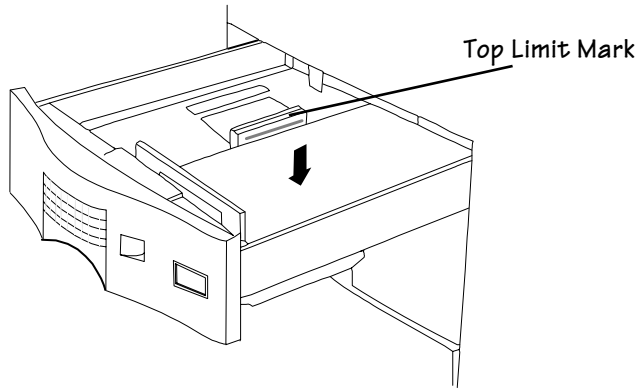
The top and bottom sheets sometimes have residual glue buildup that could cause the printer damage.

3 Place a stack of paper in the tray with the print side facing down.

The print side is usually indicated by an arrow on the paper wrapper.

▲ **Caution:** *If paper is not loaded with the print side down, the paper may jam or have excessive curl.*

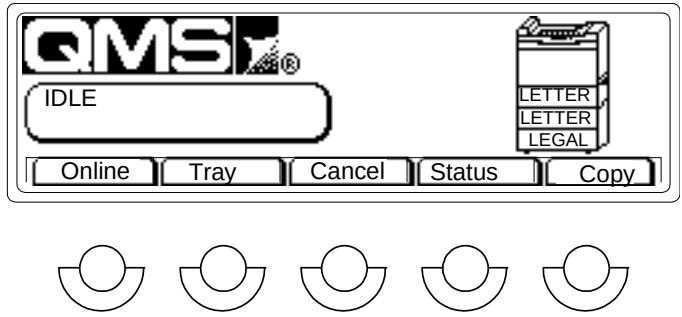
4 Ensure that the paper stack lies flat and does not exceed the top limit mark.



▲ **Caution:** *Never mix the types of paper loaded in a tray. This could result in multiple sheet feeds and other paper handling problems.*

5 If the paper doesn't fit properly in the tray recheck your paper guides to make sure they are in the proper position.

6 Check the display panel graphic for the correct paper size for each tray.



7 Close the tray.

8 Repeat this procedure for the other trays.

Printing a Start-up Page

When you turn on the printer, a start-up page prints. This page gives you an overview of your QMS 4060 Print System.

The following information prints on the start-up page:

- Printer product name
- Cumulative number of printed sheets
- Amount of resident RAM (in megabytes)
- Number of PostScript typefaces in ROM
- Default resolution
- Software version, revision, and release numbers
- Firmware level number
- Hard disk attached
- Paper input sources and sizes
- Emulation and protocol information of all standard and optional interfaces

» **Note:** *When a font SIMM is installed, the following appears in the Options section of the start-up page even though you have only one installed:*

```
%cartridge2%
%cartridge%
```

.

If the start-up page prints with all the start-up page information, and the print quality is good, go to chapter 3, “Connecting to a PC,” chapter 4, “Connecting to an Ethernet Network,” or to chapter 5, “Connecting to a Macintosh,” of this manual, depending on your computer platform.

If a start-up page does not print, see chapter 9, “Troubleshooting Printer Problems,” of the *Operation* guide for more information on printing a start-up page.

Enabling/Disabling the Start-up Page

A start-up page automatically prints when you turn on your print system. However, you can save time, paper, and toner by disabling the start-up page.

If you need the information included on the start-up page after you have disabled the page, then you must enable the start-up page and turn the printer off and then on again.

Two ways to disable (or enable) the start-up page are

1 **Use the printer control panel (Administration/Startup Options/Do Start Page menu).**

   See “Enabling/Disabling the Start-up Page” in chapter 4, “Printer Configuration,” of the *Reference* guide for complete information.

2 **Use CrownAdmin to access either remote console or configuration buttons or use the local console port to access the configuration menu.**

Installing Options

All of the options for your printer are documented in the *Options* manual included on the documentation CD-ROM. If you ordered a large-capacity input feeder (LCIF) and/or a large capacity output stacker (LCOS), see appendix C, “Installing Options,” in this manual for installation procedures.

What’s Next?

Now that you’ve set up your printer, go to chapter 3, “Connecting to a PC,” chapter 4, “Connecting to an Ethernet Network,” or chapter 5, “Connecting to a Macintosh,” of this manual to connect your printer to a host computer or a network.

❖

3

Connecting to a PC

In This Chapter...

- “Connecting to a PC”
- “Making a Parallel Connection”
- “Making the Connection”
- “PC Printing Software”
- “Printing from the PC”

Introduction

This chapter explains what an interface is, and describes how to connect your printer to a PC via the parallel port.

Connecting to a PC

To connect to a PC you must do the following:

1 **Turn the power off on both the printer and the PC.**

2 **Connect the printer to the PC.**

- **If you're connecting your PC to a network**

  Connect the printer to the network as described in chapter 4, "Connecting to an Ethernet Network" and in your PC documentation.

» **Note:** *The Ethernet port is standard on your printer's controller board.*

  If you've purchased an optional network interface for your printer, see chapter 3, "Optional Interfaces" of the *Options guide* for installation instructions.

- **If you're connecting your PC via an optional interface, see chapter 3, "Optional Interfaces" in the *Options* manual.**

- **If you're connecting your PC via the parallel interface**

  Connect the printer to the PC as described in "Making a Parallel Connection" and in "Making the Connection" .

3 **Turn on both the printer and the PC.**

4 **Install a printer driver.**

  See "PC Printing Software" .

5 **Now you're ready to print.**

Making a Parallel Connection

If you have a new PC and it has not been connected yet, before connecting the printer to the PC, you should follow the manufacturer's instructions for setting up the PC and installing (if necessary) any operating system software, such as DOS and/or Windows.

What You Need for a Parallel Interface

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your QMS vendor or a local computer store.

To connect your printer to a single PC, you need a parallel cable with a 36-pin male and a 25-pin male connector.

» **Note:** *See the "Cable Pinouts" section of appendix B, in the Reference guide, for cable pinout information.*

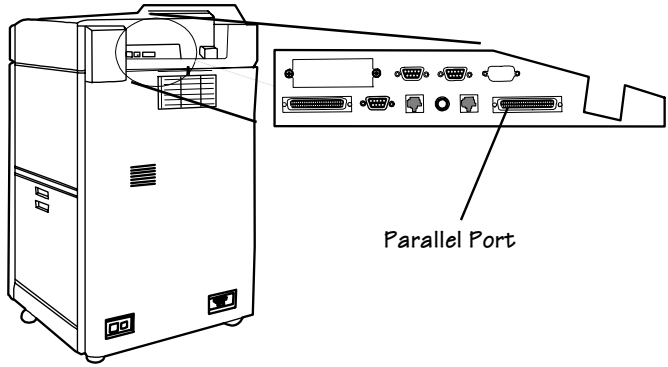
How to Choose a Parallel Cable

Your printer supports both Centronics parallel, and IEEE 1284 bidirectional parallel communication. The type of parallel cable you use depends on the type of parallel communication your computer supports (check your computer user's guide if you're unsure).

- If your computer supports IEEE 1284 bidirectional parallel communication, you need an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). This cable must be 6.5 feet/2 meters or less in length.
- If your computer supports only Centronics parallel unidirectional communication, you may use either a Centronics parallel cable (unmarked on cable) or an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). However, we recommend an IEEE 1284 cable. The IEEE 1284 cable must be 6.5 feet/2 meters or less in length while the Centronics cable may be longer.

Making the Connection

▲ ***Caution**: If you're connecting the printer to a single PC via the parallel interface, turn off both systems first.*



1 Connect the PC and the printer using a parallel cable.

a Connect the 25-pin end of the cable to the PC's parallel port.

b Tighten the screws.

c Attach the 36-pin end of the cable to the printer's parallel port (it's labeled "PARALLEL").

d Close the clips.

2 Turn on both the printer and the PC.

A start-up page should print. If it doesn't, see the "Printer Problem Checklist" in chapter 9, "Troubleshooting Printer Problems" of the *Operation* guide.

3 Test communication between the printer and the PC.

You can do this by sending a file from one of your applications, or you can see "Testing Communication" in chapter 9, "Troubleshooting Printer Problems" of the *Operation* guide.

PC Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features (like collation, 300x300 dpi and 600x600 dpi printing), **or** if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- A PostScript printer driver
- Printer description files (if you use QuarkXPress 3.3, PageMaker, or Photoshop)

Installing a PostScript Printer Driver

If you're using Windows, we recommend that you install the QMS-developed Windows driver, which is on the disk called Windows Drivers (shipped with the printer). See “Installing the QMS Level 2 Windows 3.1/Windows 95 Driver,” below.

If you're using a non-Windows application, read the printing section of the application documentation for information on choosing a PostScript driver. If the application does not provide a PostScript driver, contact the application manufacturer to see if one has become available since you bought the program. Also, PostScript drivers for some applications are available through CompuServe; see appendix A, “QMS Customer Support,” for information.

Also, check to see if application notes (tips for printing from specific applications) are available for your application from Q-FAX, or CompuServe. Appendix A, “QMS Customer Support,” explains how to use these QMS information services.

Installing the QMS Level 2 Windows 3.1/Windows 95 Driver

The QMS-developed Level 2 Windows driver supports all of the built-in printer features. Refer to the readme file in the drivers directory on the Software Utilities CD-ROM for the procedure for installing the driver.

» **Note:** *The installation program SETUP.EXE copies the driver-related files into the \WINDOWS\SYSTEM directory and updates WIN.INI accordingly. So you don't have to install the printer via the control panel.*

You can set up the printer driver settings after you have installed the driver from the printer manager in Windows 3.1 or from the printers folder in Windows 95. These settings will become the default settings for all of your applications if you prefer. Select the printer properties, make you changes to the driver (such as selecting duplex) and save them by pressing the OK button.

» **Note:** *The QMS Level 2 Windows driver has the Compress Output setting enabled by default. This feature decreases the time the file stays out on the network because the data is compressed at the host, transferred to the printer, and then decompressed. However, for users who are not on a network, this feature slows printing via the parallel port. Disable this feature by accessing the driver settings through the Printer Manager in Windows 3.1 or the Printers folder in Windows 95.*

You can set printer options from your application by choosing Print Setup from the application's File menu and then choosing the Options button. Choose the Help button in any of the driver dialog boxes for information on driver options.

Notes on Installing Printer Description Files

The QMS Level 2 Windows Driver install program SETUP.EXE copies PPD and PDF files into separate subdirectories under the specified installation directory. See the QMS Level 2 Windows Driver online help for more detailed driver information. You may delete the PPD and/or PDF files if you don't use applications that require them.

Applications may require special files, drivers, and/or configurations to produce correct output on your QMS 4060 Print System. Check

your application's documentation to determine if you need to use one or more of these files.

Adobe Illustrator

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing the QMS Level 2 Windows 3.1/Windows 95 Driver" . Then do the following to change the default resolution:

1 **In Adobe Illustrator, enable 600 dpi by choosing Document Setup from the File menu.**

» **Note:** *Adobe Illustrator 5.5 has a default setting of 300 dpi.*

2 **Click on Use Printer's Default Screens to enable it.**

3 **Go to Output Resolution and enter the resolution (300 dpi or 600 dpi).**

Adobe Photoshop

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing the QMS Level 2 Windows 3.1/Windows 95 Driver" . Then do the following:

1 **From Page Setup dialog box of the Photoshop application, select Screens.**

2 **Then click the Use Printer's Default Screen box to enable it.**

PageMaker

We recommend that you install a Windows Printer Description (WPD) file instead of the QMS Level 2 Windows driver with PageMaker 5.0, because PageMaker requires a Microsoft 3.56 or higher Windows driver.

» **Note:** *Keep in mind that many of the QMS Level 2 Windows driver features are not available from within PageMaker using the Microsoft Windows driver.*

WPD files for QMS printer are included in the /WPDS/QMS subdirectory on the Windows driver disk so that support for the QMS 4060 can be added to any WINDOWS 3.0 PostScript driver.

The WPD files on the Windows drivers disk are for QMS printers and other PostScript printers. Most available PostScript Drivers for Windows are based on the original Microsoft driver, which allows support for additional printers to be added by installing WPD files.

See the readme.txt file in the /WPDS/QMS or /WPDS/OTHERS subdirectory on the Windows driver disk for complete WPD installation and removal instructions.

Aldus Persuasion

This application won't print EPS (Encapsulated PostScript) images if the PostScript driver isn't PSCRIPT.DRV.

CorelDRAW

This application provides a feature to control whether a PostScript driver is actually treated as a PostScript driver or not. In the COREL-PRN.INI file under the [PSDRIVERS] section, specify which driver by either of the following statements:

`QMSPS=1`↵ (PostScript driver)
`QMSPS=0`↵ (Non-PostScript driver)

Microsoft Excel

If your using this application with color cell backgrounds in a sparse dot pattern, the background may not always print in all resolutions and/or orientations. Interference between the bit pattern and the PostScript halftoning for color causes this inconsistency. Change the resolution to one that does work for the background and use a darker shade of back for the pattern color, or enable the All Colors to Black option from within the Excel Images dialog box.

Other Applications

The scaling factor set in the driver is independent of any scaling factor set in an application. While the application's scaling factor is likely to

affect the size and placement of image elements, the driver scaling factor simply scales the resultant image from the center of the page.

QuarkXPress

Follow this procedure to install the PDF:

» **Note:** *All PDF's are copied into a PDF subdirectory during the QMS Level 2 Windows Driver installation process.*

1 **After you install the QMS driver for Windows, close the QuarkXPress application on your PC.**

2 **Copy the QuarkXPress PDF from its installation directory to the QuarkXPress directory on your PC.**

3 **Restart QuarkXPress.**

4 **Check the Page Setup menu to verify that your printer is in the list of available printers.**

See your QuarkXPress documentation for detailed information on installing PDFs.

Printing from the PC

You're now ready to print from your PC. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media" in the *Reference* guide.

What's Next?

Now that you've connected your printer to a PC, continue with chapter 6, "Control Panel" to learn about the printer's control panel keys, indicators, and message window.

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4

Connecting to an Ethernet Network

In This Chapter . . .

- “What's Included in CrownNet” on page 4-3
- “Setting up the CrownNet Interface” on page 4-4
- “Network Connection” on page 4-4
- “Software Installation” on page 4-6
- “Configuring the CrownNet Interface” on page 4-7
- “Configuring the Network” on page 4-7
- “What's Next?” on page 4-8

Introduction

This chapter guides you through setting up the QMS CrownNet network interface. The *QMS CrownNet System Administrator's Guide* discusses the CrownNet interface configuration options and explains how to use the CrownNet software (CrownAdmin, CrownAdmin 2, CrownNet Manager, and CrownNet Print Utility for Windows).

The Ethernet port, also referred to as the QMS CrownNet network interface, is a combination of hardware and host software that allows your QMS 4060 printer to be connected to an Ethernet network that supports the following:

Operating System	Protocol
AppleTalk	EtherTalk
LAN Manager/LAN Server	NetBIOS/NetBEUI
NetWare	IPX/SPX
UNIX	TCP/IP
Windows 3.1/Windows 95/ Windows NT	TCP/IP/NetBIOS/NetBEUI/EtherTalk

What's Included in CrownNet

CrownNet consists of the items listed below. Your printer came standard with an Ethernet network interface and these items accompanied your printer.

- *QMS Software Utilities* CD-ROM with the following software:
  - CrownAdmin for Macintosh
  - CrownAdmin 3 and on-line user's guide for AIX, HP-UX, Solaris, SunOS, Windows/Windows 95/Windows NT/Windows for Workgroups, Macintosh, and Crown Printer Accounting
  - CrownNet Manager for OS/2
  - CrownNet Print Utility for Windows
  - QMS UNIX Host Software
  - Windows NT Print Monitor
  - Windows 95 Print Monitor
- *QMS Software Utilities* CD-ROM with the following PDF manuals
  - *QMS CrownNet System Administrator's Guide*
  - *QMS CrownNet Setup Guide*
  - *QMS Crown Remote Console User's Guide*

Alternate Media

QMS provides these software utilities and manuals on other media as well as on CD-ROM. Contact your QMS vendor for media availability and purchase information. You can also download them via our World Wide Web Server at http://www.qms.com, our Bulletin Board at (334) 633-3632, our FTP server at ftp.qms.com, or CompuServe at go qmsprint.

Manuals on the CD-ROM

Your *QMS CrownNet System Administrator's Guide* and *QMS CrownNet Setup Guide* are included on the CD-ROM in Adobe Acrobat PDF format. The Acrobat Reader program is also on the CD-ROM. The CD-ROM insert provides instructions on installation of the Reader.

Setting up the CrownNet Interface

Complete instructions for setting up the CrownNet interface using EtherTalk, Microsoft Windows Network, NetWare, OS/2 LAN Manager/LAN Server, and TCP/IP are included in the CrownNet Setup Guide on the software utilities CD-ROM.

These instructions are also included in readme files in the appropriated directories on the CD-ROM.

Network Connection

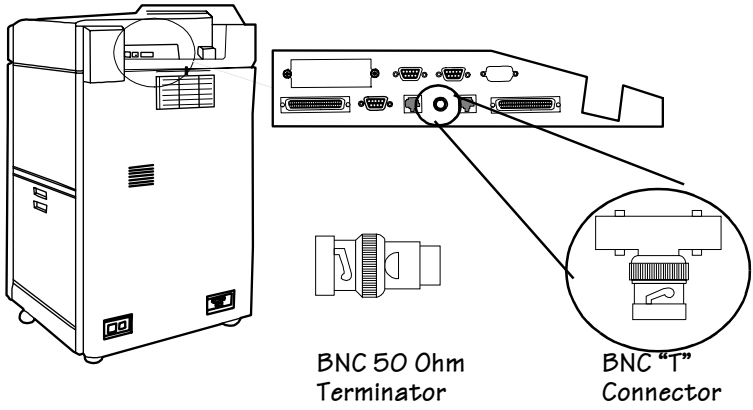
The method you use to connect your printer to the network depends on the type of connection you're using to an Ethernet network (described below).

Ethernet Network Connection

- For thin-wire Ethernet (10Base2, BNC connector) see the next section.
- For Twisted-pair Ethernet (10BaseT, RJ45 connector) see page 4-6.

Thin-Wire Ethernet Connection

Thin-wire Ethernet connections use BNC connectors.

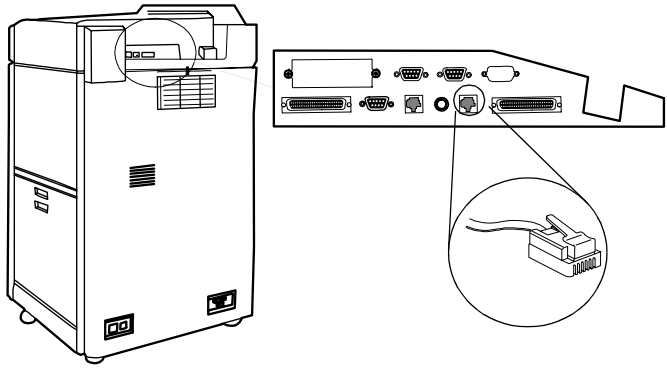


▲ **Caution:** *Unless the BNC "T" connector is already installed on the thin-wire Ethernet cable, your network's operation is disrupted during the connection process.*

1. **Turn off the printer, and unplug the power cord.**
2. **If the BNC "T" connector is already installed, go to step 3. Otherwise, attach one section of thin-wire Ethernet cable to one end of the BNC "T" connector.**
3. **Attach another section of thin-wire Ethernet cable or a 50 ohm terminator to the other end of the BNC "T" connector.**
4. **Attach the BNC "T" connector to the BNC port on the CrownNet interface.**
5. **Plug in the printer, and turn it on.**

Twisted-Pair Ethernet Connection

Twisted-pair Ethernet connections use RJ45 connectors.



1 **Turn off the printer, and unplug the power cord.**

2 **Connect one end of the twisted-pair Ethernet cable to the RJ45 port on the CrownNet interface.**

3 **Connect the other end of the cable to the 10BaseT concentrator.**

4 **Plug in the printer, and turn it on.**

5 **Go to "Software Installation" on page 4-6.**

Software Installation

Complete installation instructions for AIX, HP-UX, Macintosh, OS/2, Sun/SPARC Solaris 2.4 and SunOS 4.1*x*, Windows 3.1, Windows 95, Windows for Workgroups 3.11, and Windows NT 3.5 are included in the *QMS CrownNet Setup Guide* on the *QMS Software Utilities* CD-ROM.

These instructions are also provided in readme files in the appropriate directories on the CD-ROM.

Configuring the CrownNet Interface

Complete instructions for configuring the CrownNet interface using EtherTalk, Microsoft Windows Network, NetWare, OS/2 LAN Manager/LAN Server, and TCP/IP are included in the *QMS CrownNet Setup Guide* on the *QMS Software Utilities* CD-ROM.

Configuring the Network

Complete instructions for configuring the network for CrownNet including EtherTalk, Microsoft Windows Network, NetWare, OS/2 LAN Manager/LAN Server, and TCP/IP are included in the *QMS CrownNet Setup Guide* on the *QMS Software Utilities* CD-ROM.

Where To Go From Here

In addition to this chapter, the following documentation contains information you may need:

- CrownAdmin 3 on-line help—Contains detailed information on using CrownAdmin 3. Choose Contents from the Help menu in the main CrownAdmin 3 window (or choose any Help button) to access the on-line user's guide.
- CrownNet Print Utility on-line help—Contains detailed information on using CrownNet Print Utility.
- *QMS CrownNet System Administrator's Guide*—Provides detailed configuration and utility information.
- *QMS Crown Remote Console User's Guide*—Explains how to use Remote Console to control printing from a workstation anywhere on the network.
- Your network documentation—Contains information on printing.

If You Have Trouble

If you have trouble connecting and configuring your Ethernet interface, refer to the"CrownNet Problems" section of chapter 9, of the *Operation* guide for troubleshooting tips.

What's Next?

Now that you've connected your printer to an Ethernet network, skip to chapter 6, "Control Panel" to learn about the printer's control panel keys, indicators, and message window.

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5

Connecting to a Macintosh

In This Chapter...

- “Connecting to a Macintosh”
- “Macintosh Printing Software”

Introduction

This chapter describes how to connect your printer to a Macintosh via the Ethernet or LocalTalk port.

Connecting to a Macintosh

To connect to a Macintosh you must do the following:

1 **Turn the power off on the printer.**

2 **Connect the printer to the Macintosh.**

- If your Macintosh has an Ethernet connection, connect the printer to the Macintosh as described in chapter 4, “Connecting to an Ethernet Network” and your Macintosh documentation.

  In addition to the Ethernet interface, you have the option of using one optional interface to connect your printer to a second Ethernet network, a Token-Ring network, a single Macintosh, or a LocalTalk network.

  If you’ve purchased an optional interface for your printer, see the *Options* manual as well as the documentation provided with the interface for installation instructions.

- If your Macintosh doesn’t have an Ethernet connection, you need to order the optional LocalTalk interface card for this printer. See chapter 3, “Optional Interfaces” of the *Options* manual for information on installing the interface card in the printer and connecting the printer to a Macintosh.

3 **Turn on both the printer and the Macintosh.**

4 **Install a printer driver.**

See “Macintosh Printing Software” .

5 **Now you’re ready to print.**

Macintosh Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features (like collation, 300x300 dpi and 600x600 dpi printing), **or** if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- Macintosh Utilities
- A PostScript printer driver
- Application-specific printer files

Installing Macintosh Utilities

The Macintosh Utilities, included on the QMS Software Utilities CD-ROM we shipped with your printer, is a utility program for controlling the printer from the Macintosh. For example, you can turn off the start-up page, rename the printer, download fonts, print font samples, and manage hard disks. Many of the procedures described in this manual involve using Macintosh Utilities. Check the main Readme file in the CD-ROM root directory to find the location on the CD-ROM, and then use the Readme file directory for installation instructions.

Installing Macintosh Printer Drivers

To be able to use all your printer’s special features, you need to take a few minutes to load the following software from the Macintosh disks we shipped with your printer:

If QuickDraw GX is installed on your Macintosh, load the GX driver for the QMS 4060 Print System.

If QuickDraw GX is not installed on your Macintosh, install the following:

- LaserWriter 8.*x* and the QMS 4060 PPD file

  See “Installing LaserWriter 8.x and the QMS 4060 4.x PPD” for information.

- Printer files for Aldus/Adobe PageMaker, Aldus/MacroMedia FreeHand, Adobe PrePrint, Adobe Separator, or QuarkXPress

  See “Macintosh Printer Description Files for Quark and Adobe Applications” for information.

Installing LaserWriter 8.x and the QMS 4060 4.x PPD

Although the *QMS 4060* supports LaserWriter 6, 7, and 8, we recommend using LaserWriter 8. For your convenience, LaserWriter 8 and the *QMS 4060* PPD (a printer description file) are provided with your printer so you can take advantage of special features.

1. **If you haven't already, follow the instructions given above in “Installing the Macintosh Printer Utilities.”**
2. **Open the PSExec 3.*xx* Folder, then the Drivers folder, then the System Utilities folder to display the LaserWriter 8.*x* icon (among other things).**
3. **Drag the LaserWriter 8.*x* icon to your current System Folder. (The system knows where to copy it.)**
4. **Create a Printer Descriptions folder:**

   System 8 users—Create a folder called Printer Descriptions inside the Extensions folder inside the System Folder.

   System 7 users—Create a folder called Printer Descriptions inside the Extensions folder inside the System Folder.

   System 6 users—Create a folder called Printer Descriptions inside the System Folder.

5. **Open the PPDs folder inside the Drivers folder in the PSExec 3.*xx* Folder.**

6 **Open the Ver 4.x folder inside the PPDs folder.**

7 **Select the QMS 4060 printer description file in the Ver 4.x folder and drag it to the Printer Descriptions folder you created in step 4.**

8 **From the Apple menu, choose Chooser.**

9 **In the Chooser window, select the LaserWriter 8.*x* icon and select the QMS 4060.**

10 **Choose the Setup button.**

This causes the LaserWriter to query the printer and automatically choose the appropriate PPD.

11 **Exit the Chooser.**

Now, when you go into your application, you can access QMS printing options by choosing Options in your application's Print dialog box.

Macintosh Printer Description Files for Quark and Adobe Applications

If you use any of these applications, install the appropriate printer description file (PPD, PDX, and/or PDF) as described below:

1 **If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" and in "Installing LaserWriter 8.x and the QMS 4060 4.x PPD" .**

2 **Install the appropriate printer description file(s) for your application from the Drivers folder in the PS Exec folder:**

- **If you use Adobe Separator,** install the PPD file. Your Separator documentation explains where to put it.
- **If you use Adobe PageMaker 5.x,** install the version 4.x PPD in the Printer Descriptions folder.
- **If you use Aldus PageMaker 4.x,** install the version 3.0 PPD and PDX files in the PPDs folder in the Adobe folder in the System Folder.

- **If you use Macromedia FreeHand 4.x,** install the version 4.x PPD in the Printer Descriptions folder.
- **If you use Aldus FreeHand 3.x,** install the version 3.0 PPD and PDX files in the PPDs folder in the Adobe folder in the System Folder.
- **If you use Adobe PrePrint,** install the version 3.0 PPD and PDX files in the PPDs folder in the Adobe folder in the System Folder.
- **If you use QuarkXPress,** install the QMS 4060 PDF in the QuarkXPress folder in the PDF folder. To select the PDF, go to Quark's Page Setup dialog box. Under Printer Type, select the QMS 4060 PDF and select the Use Printer Default Screen Angles checkbox. Also in Quark's Page Setup dialog box, make sure None is selected for the EFI Color profile option.

If You Have Trouble

If you have trouble connecting and configuring your Macintosh interface, refer to the "Output Problems" section of chapter 9, "Troubleshooting Printer Problems" in the *Operation* guide for troubleshooting tips.

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6

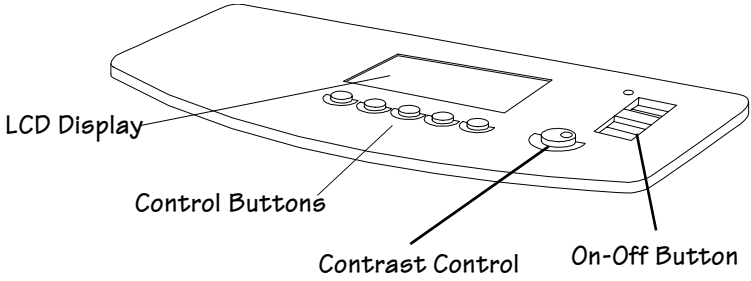
Control Panel

In This Chapter . . .

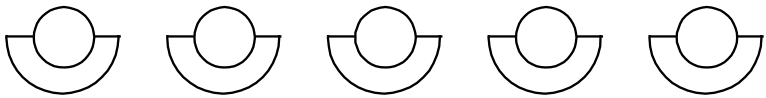
- “Control Panel Functions,”
- “Message Window,”
- “Control Panel Keys,”

Introduction

The control panel for your QMS 4060 Print System consists of 5 control buttons and a backlit LCD display with a contrast control. The LCD display contains graphical and textual information on printer status and control button functions.

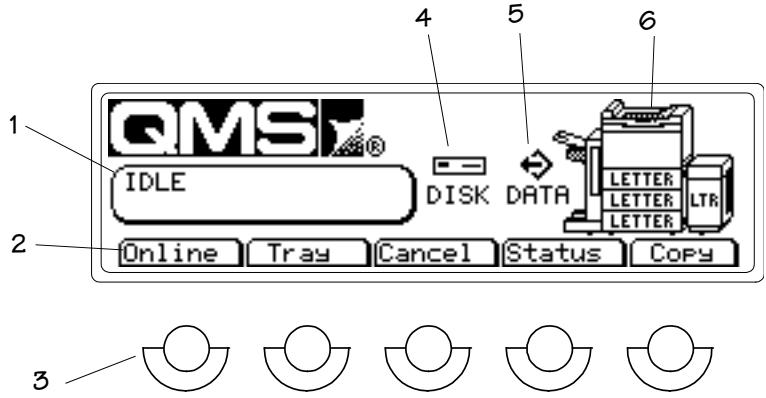


The control buttons change function as you take the printer off line or when you access menu selections. The following sections will help you identify control panel elements and show you how to operate the control panel.



Control Panel Functions

This illustration shows the control panel with the elements numbered. See the list below the illustration for an explanation of the element.



1 This is the printer message window. This provides status messages, error messages, and menu configuration information.

2 This indicates the present function of each control button below the label.

3 These are the five control buttons.

4 The Disk symbol turns on whenever the printer is accessing the internal hard disk. Otherwise this symbol will not appear.

5 The Data symbol flashes on and off periodically when the printer is receiving data from the interfaces. Otherwise, this symbol will not appear.

6 The printer graphic shows the size media set up for the three input trays. The currently selected tray is highlighted. If the optional large-capacity input feeder or the output stacker is installed, then the graphic shows these units attached. The active tray or feeder blinks as media is pulled into the printer.

Message Window

Setting the Message Window Language

Status messages and configuration menus can be displayed in the message window in English, French, German, or Spanish. If you need to change the message window language, use the Administration/Miscellaneous/Keypad Language menu.

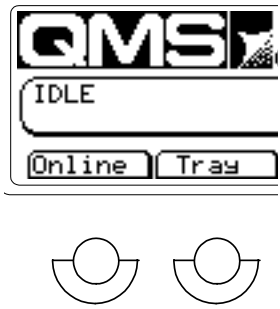
If you're not familiar with using the configuration menu, refer to chapter 4, "Printer Configuration," of the *Reference* guide for complete information.

Menu	Administration/Miscellaneous/Keypad Language
Choices	English, French, German, Spanish
Default	English
Notes	The printer must be restarted for changes to this menu to take effect. You can either turn the printer off and then back on after you save the change and exit from the configuration menu, or you can wait for the change to take effect the next time you manually turn on the printer.

Control Panel Keys

Online, Tray, Cancel, Status, and Copy Buttons

The Online, Tray, Status, and Cancel buttons access frequently used printer options. The Copy function is only available when the Crown-Copy option is installed.

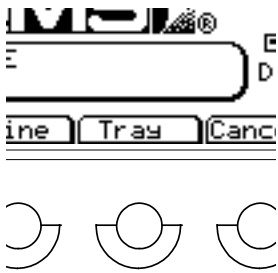
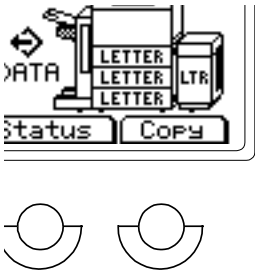
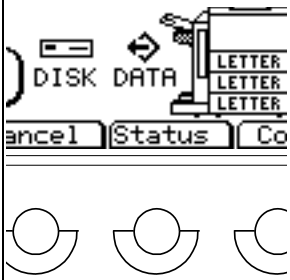


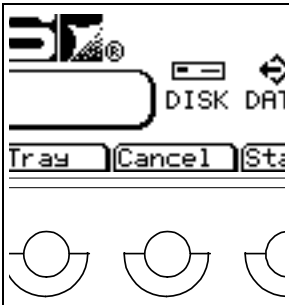
The Online button switches the printer from on line to off line status. Press the button once to take the printer off line when it is on line and once to return the printer to on line when it is off line.

When the printer goes off line, the communication ports are closed, so no new data is accepted. The printer continues printing until it has finished all jobs in process. Although jobs continue to compile and print using the data already received, a job may be interrupted, causing it to wait for more incoming data before printing resumes.

If a local or remote console session has taken the printer off line, pressing the Online button on the control panel will not take effect until the local or remote console session is over.

» **Note:** *You must take the printer off line before using all other buttons except the Status, Cancel, and Copy buttons if CrownCopy is installed.*

	The Tray button allows you to select the active paper input source: ■ upper (upper tray) ■ middle (middle tray) ■ lower (lower tray) ■ optional (optional high-capacity input deck, if installed) The printer automatically goes off line when you to use the Tray button. The Cancel, Status, and Copy buttons change function to Select, Previous, and Next to allow you to select a different tray.
	Use the Copy button to print a copy via CrownCopy, if that option is installed. If CrownCopy is installed, this button gives you access to the copy menu to configure CrownCopy and make copies. See the *Options* manual for more information on CrownCopy.
	Use the Status button to print a listing of the current printer settings. See the “Special Pages,” section of chapter 4, “Printer Configuration,” in the *Reference* guide for information on the status page contents. You can print a status page whether the printer is on line or off line.

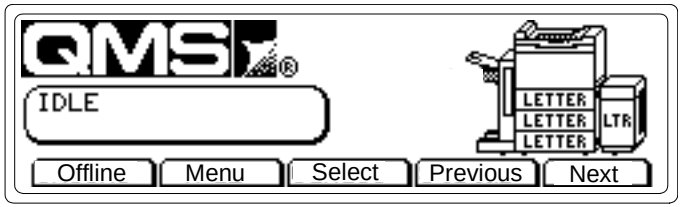


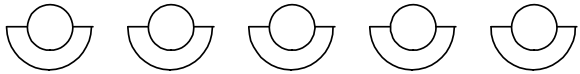
Press the Cancel button and select the Yes option to cancel all print jobs with a printing, interpreting, terminating, or spooled status, or select the End Job option to send an end-of-job indicator to jobs waiting for incoming data. After all jobs with the above status are canceled or after the current job is ended, dependent on your selection, the printer resumes printing other jobs that are in the queue. (See chapter 5, “Advanced Printing Features,” of the *Operation* guide for complete information.) You can use this button while the printer is on line.

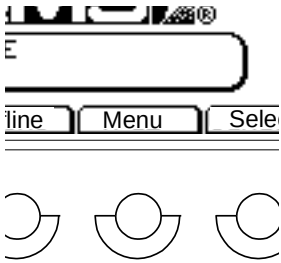
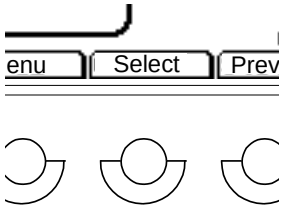
» **Note:** *If you press the Cancel button by mistake, or if you decide not to cancel a print job after pressing this button, press the Menu button to “cancel” the Cancel button’s function.*

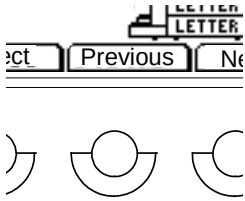
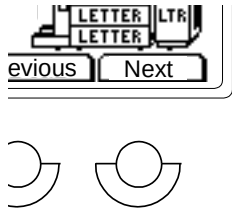
Menu, Select, Previous, and Next Keys

The Menu, Select, Previous, and Next buttons are used in printer configuration (explained in detail in chapter 4, “Printer Configuration,” of the *Reference* guide). Before you can use any of these buttons, press the Online button once to take the printer off line.





	The Menu button gives you access to the configuration menu. First press the Online button to take the printer off line, and then press the Menu button to access the configuration menu. When you’re changing the printer configuration, press this button to cancel a change (before pressing the Select buttons), to return to a previous menu, or to return to a previous character when entering character information.
	Press the Select button to access a menu or to choose a displayed menu option.

	Press the Previous button to return to the previous selection or option for the current menu. When changing character information, use this button to return to the previous choice for the current input character.
	Press the Next button to advance to the next selection or option in the current menu. When changing character information, use this button to advance to the next choice for the current input character.

What's Next?

Now you're ready to print. For more information on the day-to-day operation of your printer, refer to the *Operation* guide. For more technical information, refer to the *Reference* guide.

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A

QMS Customer Support

In This Appendix . . .

- "Sources of Support" on page A-2
- "QMS World-wide Offices" on page A-5

Sources of Support

Several sources of help and information are available, depending on the type of help you need:

Your QMS Vendor

Your local vendor (the one from whom you bought the printer) may be best equipped to help you. Your vendor has specially trained service technicians available to answer questions, and the equipment to analyze your printer problems.

Your Application Vendor

Often, “printing” problems have more to do with the application being used than with the printer. In this case, the application manufacturer is the best source of help.

Q-FAX

Q-FAX, a QMS information retrieval service, provides application notes, technical support notes on common printing problems, and information about printer specifications, options, accessories, consumables, and prices.

In the United States and Canada, call (800) 633-7213 to reach Q-FAX. In all other countries, call (334) 633-3850. Have your fax number handy when you call (or place the call from your fax machine's handset).

You can choose to have either a directory (a list of currently available documents) or a specific document sent to you. The first time you call, request the directory (press 2 on your phone or fax keypad when prompted). Then call back to request specific documents. You can order up to three documents per call.

CompuServe

Through CompuServe, you ask general (non-technical) questions, share information with other users, and access printing information and programs. When you use CompuServe, type `go qmsprint↵` to go directly to the forum where QMS is located. The QMS library section contains application notes, printer drivers, utilities, technical information, and announcement files.

Internet

The QMS server provides access to technical reports, new product announcements, a trade show schedule, and other general information about QMS.

If you have access to the World Wide Web, you can view the QMS home page at http://www.qms.com/. The QMS ftp resource is ftp.qms.com.

QMS Customer Response Center (CRC)

You can contact the QMS Customer Response Center (CRC) in three different ways:

- **Telephone**—You can call the CRC at (334) 633-4500 (US) Monday–Friday, 7:00 am–6:00 pm, Central Time.

» **Note:** *If you call for assistance, have the following information ready so our technicians can help you more quickly:*

- ☑ Your phone number, fax number, and shipping address
- ☑ A description of the problem
- ☑ The printer model
- ☑ The type of host computer you're using
- ☑ The type and version of operating system you're using
- ☑ The interface you're using, and, if serial, the protocol (for example, XON/XOFF)
- ☑ The application and version you're using

- ☑ The emulation you're using
- ☑ Your printer firmware version (listed on the status/start-up pages)

- **Fax**—You can fax questions to the CRC at (334) 633-3716 (US). Provide the same information as listed above, and indicate whether you would like a faxed or a phoned reply.
- **Internet**—If you have access to the World Wide Web, you can access the CRC through the QMS home page at http://www.qms.com/

QMS World-wide Offices

QMS United States and Latin America

General Contact
1 (334) 633-4300
Fax 1 (334) 633-4866
Email info@qms.com
Internet http://www.qms.com
Information on QMS products, supplies, and accessories, and on the authorized QMS remarketer or service provider nearest you
1 (800) 523-2696

Customer Response Center (CRC)
Technical Assistance
1 (334) 633-4500 7:00 am–6:00 pm Central Time
Fax 1 (334) 633-3716
Internet http://www.qms.com

Latin America Fax
1 (334) 639-3347

National Service
Service Information, Installation, and Maintenance Pricing
1 (800) 762-8894
On-Site Service and Depot Repair Information
1 (800) 858-1597 7:00 am–7:00 pm Central Time
Spare Parts Ordering and Information
1 (334) 633-4300 x2530 8:00 am–5:00 pm Central Time

QMS Canada

General Contact
1 (514) 333-5940
Fax 1 (514) 333-5949
Supplies and Accessories 1 (800) 268-0343 x223

National Service
On-Site Service and Depot Repair Information
1 (800) 268-4969 8:30 am–7:00 pm Eastern Time
Spare Parts Ordering and Information
1 (905) 206-9234 x238 8:30 am–5:00 pm Eastern Time

QMS in Japan

General Contact
(+81)-3 3779-9600
Fax (+81)-3 3779-9650
Internet http://www.qmsj.co.jp

QMS in Latin America

General Contact
Cra 43 DD#8-42
Officina 201
Medellin, Colombia
(+57) (4) 312 13 70
Fax (+57) (4) 268 92 97

QMS EMEA

QMS Australia	Anitech Sydney Business & Tech. Centre 52/2 Railway Parade 2141 Lidcombe NSW Australia (+61) 2–9901 3235 Fax (+61) 2–9901 3273
QMS Benelux **Belgium, Netherlands, and all unlisted countries**	Planetenbaan 60 ‘Corner Plaza’ 3606 AK Maarssen The Netherlands (+31) 346–551333 Fax (+31) 346–550170 Internet http://www.qms.nl
QMS France	Vélizy Plus 1 Bis, Rue du Petit Clamart 78142 Vélizy Cedex France (+33) 1–410 79 393 Fax (+33) 1–408 30 110
QMS GmbH **Germany and Austria**	Gustav Heinemann Ring 212 D-81739 Munich Germany (+49) 89 63 02 67 0 Fax (+49) 89 63 02 67 67

QMS Italy	Via della Repubblica 56 43100 Parma Italy (+39) 52–1231 998 Fax (+39) 52–1232 902
QMS Nordic **Sweden, Finland, Norway, and Denmark**	Arenavägen 41, 6th floor 121 77 Johanneshov Sweden (+46) 8–600 01 30 Fax (+46) 8–600 01 33
QMS South Africa	Saskay House Unit 24 Sunninghill Business Park Peltier Road, Sunninghill, Johannesburg Republic of South Africa (+27) 11–807 6957 Fax (+27) 11–807 6960
QMS UK **United Kingdom and Ireland**	Old Bridge House, The Hythe Staines, Middlesex TW18 3JF United Kingdom (+44) 1784–442255 Fax (+44) 1784–461641

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B

Configuration Menu

In This Appendix . . .

- “Menu Chart Conventions,"
- “Installation Menu,"
- “Operator Control Menu,"
- “Administration Menu,"

Introduction

You may use this section as a quick reference for understanding and navigating the menu structure of the QMS 4060 Print System.The following menu charts are provided in this section:

- Installation Menu

  Shows the configurations available when the security key is used to access the Installation Menu.

- Operator Control Menu

  Shows the operator printer configurations.

- Administration Menu

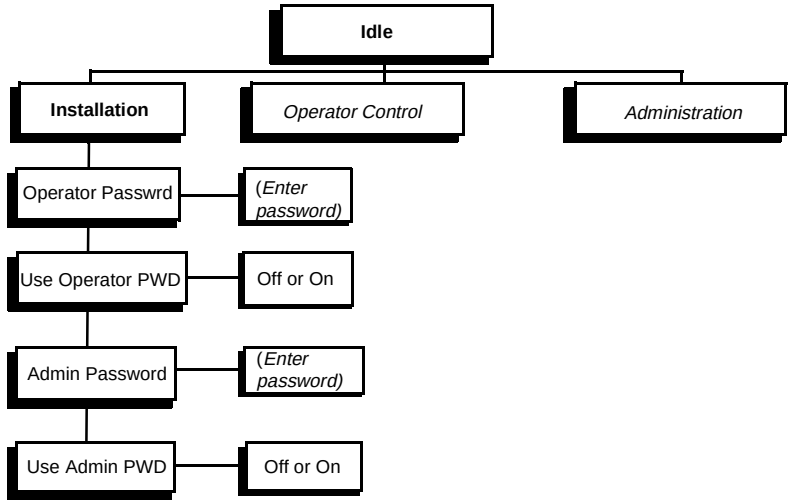
  Shows the printer administration configurations.

Menu Chart Conventions

The following conventions are used in the menu charts:

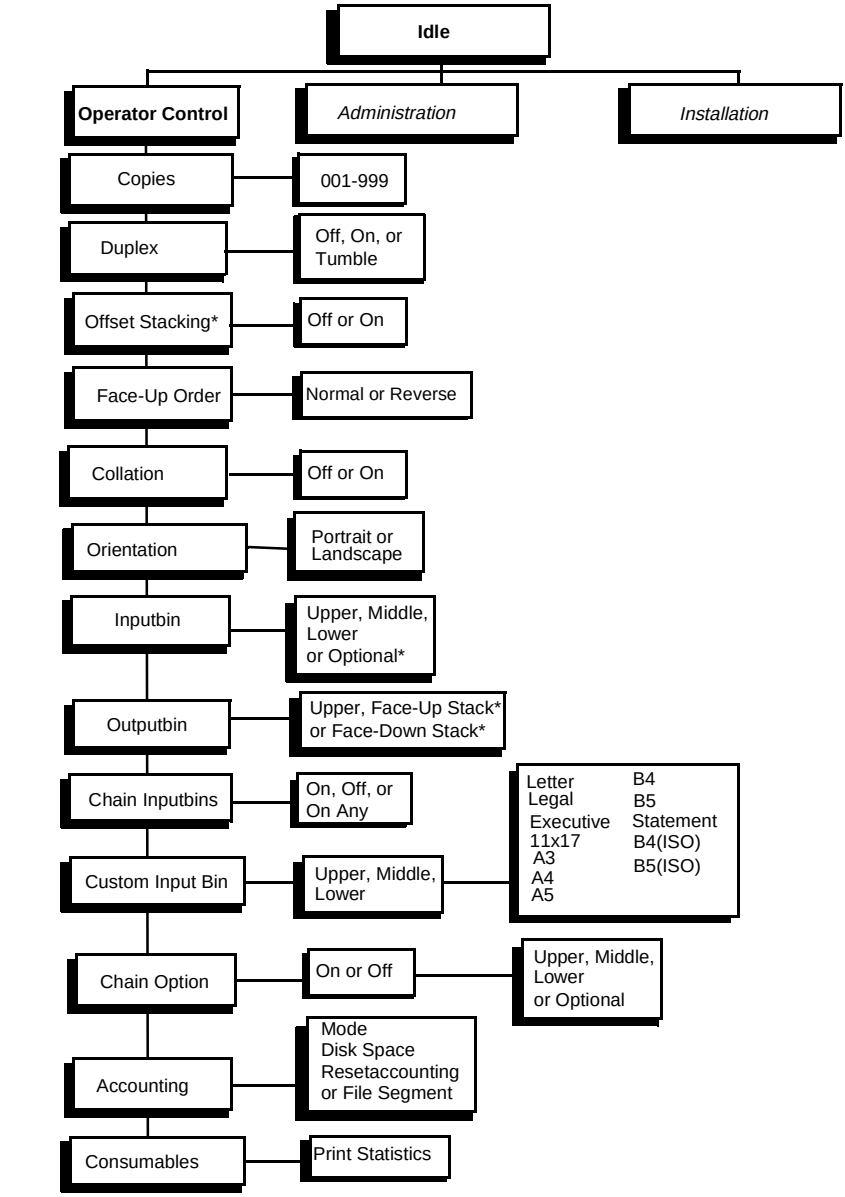
- Some menu selections are marked with an asterisk (*). These selections will only appear on your print system if the specified option is installed.
- These menu charts show only the top-level menus. See chapter 4, “Printer Configuration," of the *Reference* guide for detailed information on a menu selections’s options.

Installation Menu



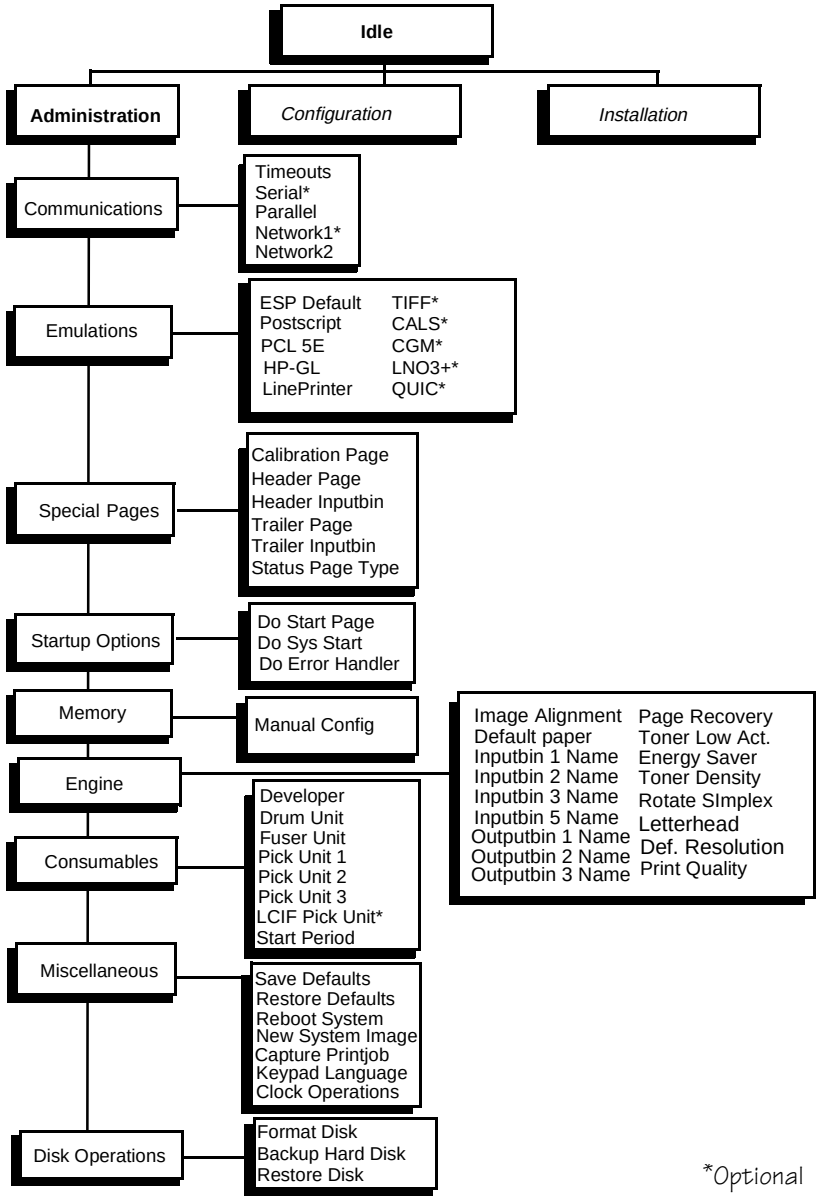
*Optional

Operator Control Menu



*Optional

Administration Menu



C

Installing Options

In This Appendix . . .

- “Large-Capacity Input Feeder” on page C-2
- “2000-Sheet Large-Capacity Output Stacker” on page C-10
- “3000-Sheet Large-Capacity Output Stacker” on page C-22
- “Custom Tray” on page C-50
- “Security Key” on page C-54

Large-Capacity Input Feeder

The Large-Capacity Input Feeder (LCIF) holds 3000 sheets and increases the paper input capacity of the printer to 4500 sheets. There are two models of the LCIF: one model feeds letter-size paper and the other model feeds A4 size paper.

What's in the Kit?

- Large-Capacity Input Feeder (LCIF)
- Interface cable
- Paper feeder guide support stand
- Sheet guide and support stand guide

Installation Procedure

WARNING: *The LCIF weighs approximately 44 lb. (20 kg). Do not attempt to lift or move it by yourself.*

ACHTUNG! *Der LCIF wiegt ca. 20 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen.*

1 Unpack the paper feeder, the interface cable, and the paper feeder support stand, from the box.

a Open the LCIF box.

b Reach into the box and grasp the sides of the foam shipping blocks.

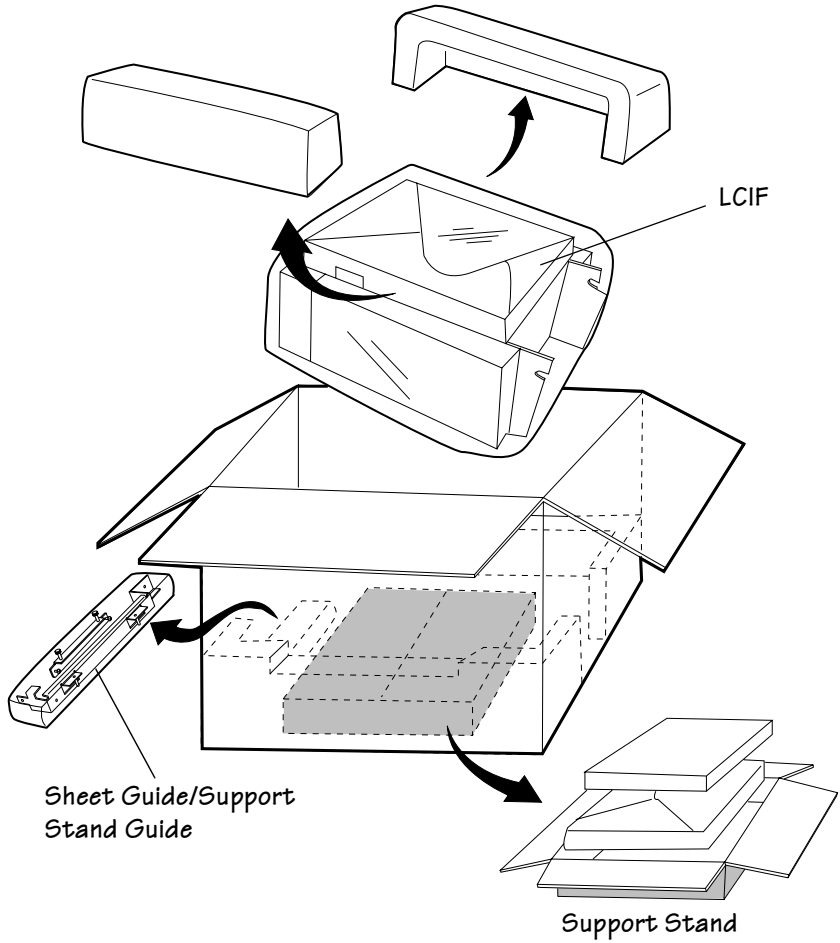
c Carefully lift the LCIF (including the foam shipping blocks) out of the box and place it on the floor.

d Remove the foam shipping blocks and plastic cover.

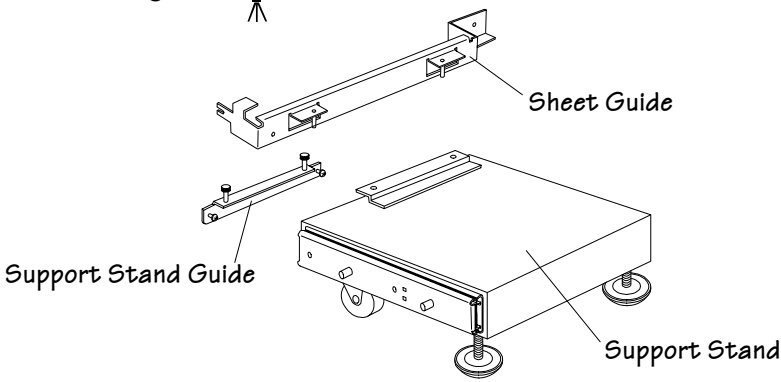
e Open the LCIF door and remove all packing materials inside.

f Remove the sheet guide/support stand guide and support stand from the box.

g Save the packing material for possible repacking of the LCIF.

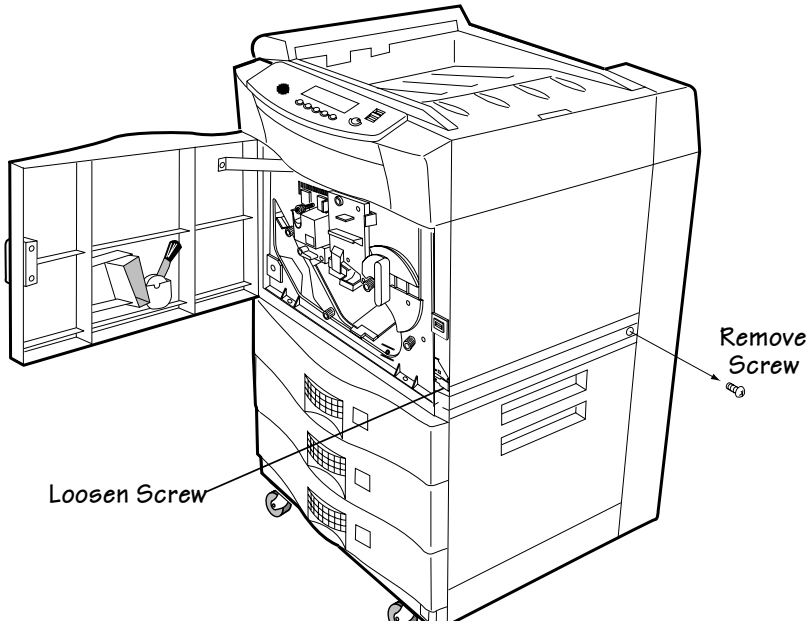


2 **Locate the support stand, the support stand guide, and the sheet guide.**

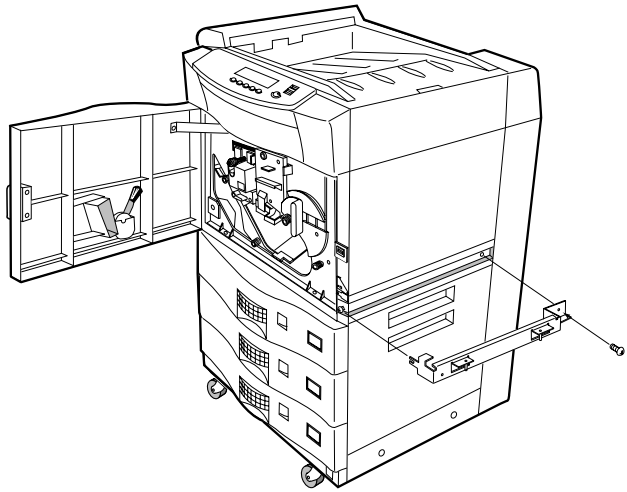


3 **Open the front door of the printer.**

4 **Using a Phillips screwdriver, remove the left side paper input cover by loosening the front screw and removing the rear screw.**

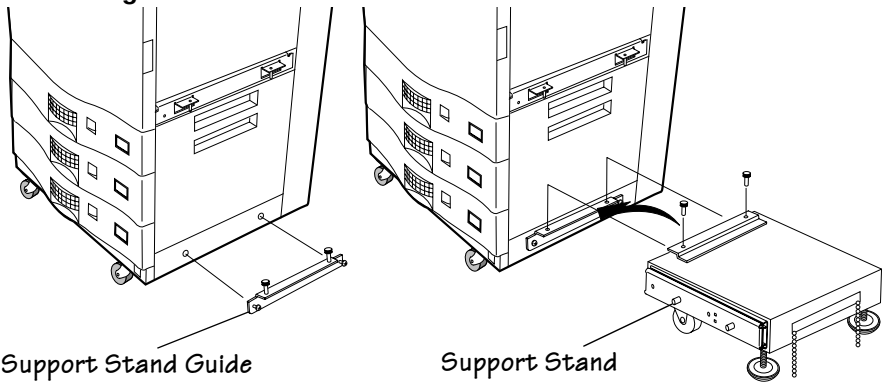


5 Attach the sheet guide to the printer using the screws you loosened and removed in step 4.



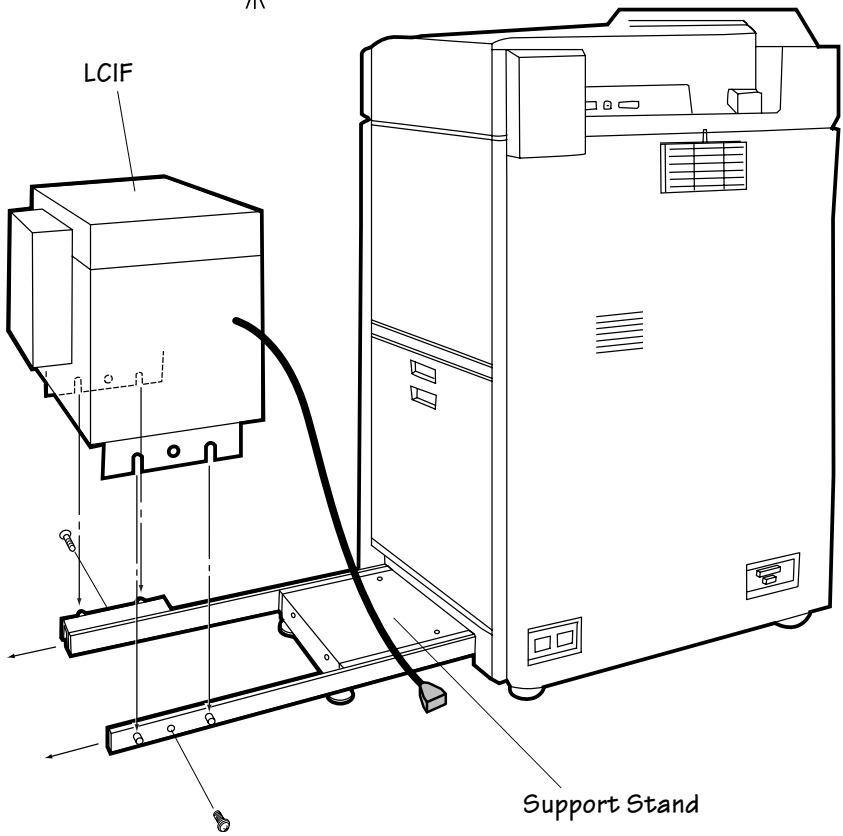
6 Install the support stand guide using the screws attached.

7 Lift the support stand and place on top of the support stand guide.



8 **Attach the support stand to the support stand guide.**

9 **Pull out the support stand slide-rails until they lock in the out position.**

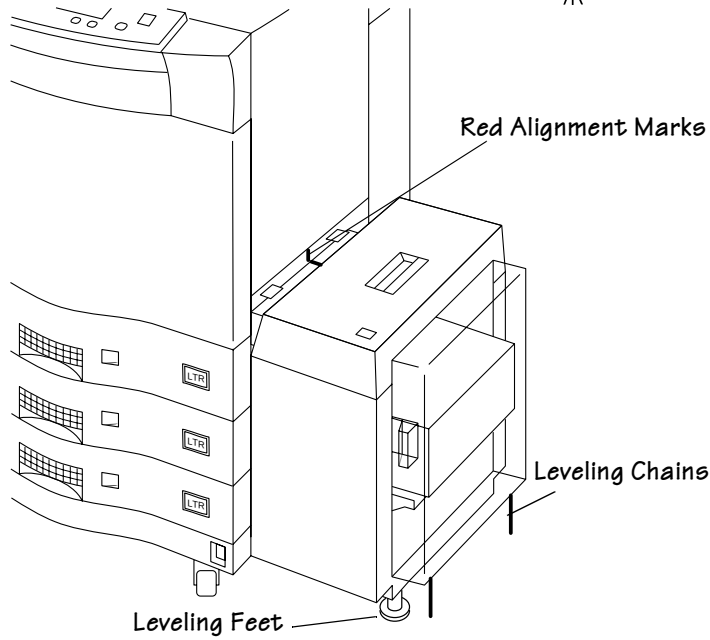


10 **Set the LCIF on the pins of the slide-rail.**

11 **Secure the LCIF to the support stand using the two thumb-screws.**

12 **Slide the LCIF into the sheet guide on the printer, until it locks in place.**

13 **Adjust the leveling feet on the LCIF support stand so that the two leveling chains are just touching the floor.**

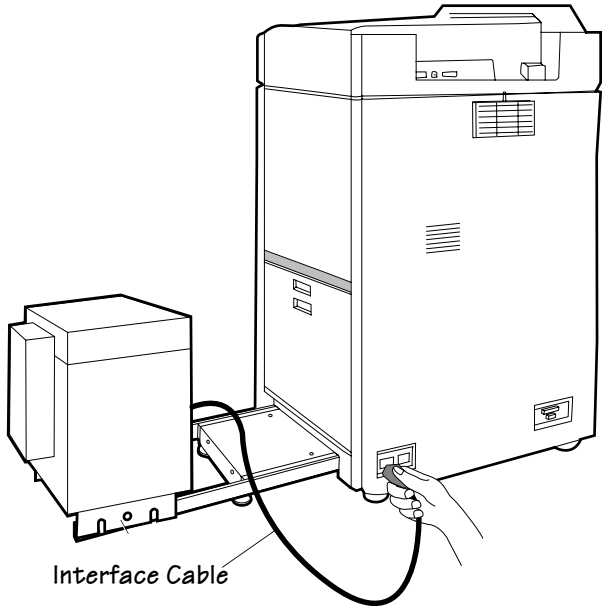


14 **Make sure the red alignment marks on the LCIF and the sheet guide line up. If the alignment marks do not line up, adjust the leveling feet on the support stand.**

15 **Make sure the power on the printer is turned off.**

16 **Press the release handle on the top of the LCIF and pull the LCIF away from the printer.**

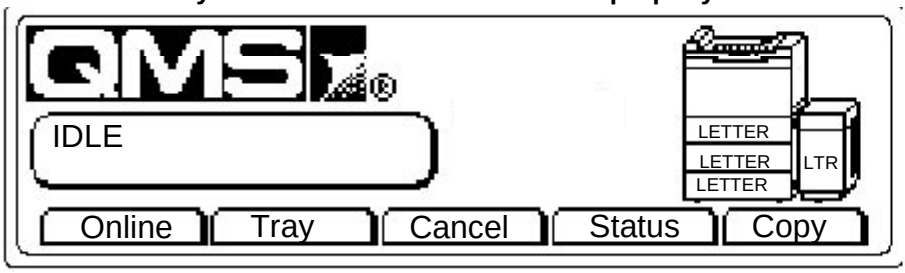
17 Connect the interface cable to the connector on the rear lower left side of the printer.

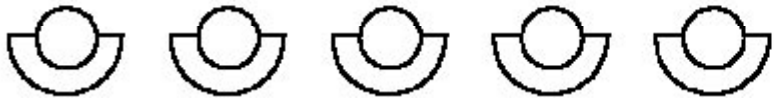


18 Slide the LCIF into the sheet guide on the printer, until it locks in place.

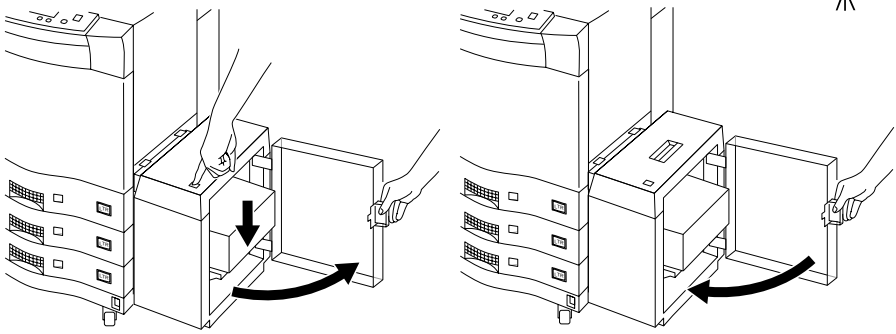
19 Turn on the printer.

20 Check the printer display panel for the LCIF graphic. This lets you know the LCIF is connected properly.





21 To load paper in the LCIF, open the LCIF door, press the button on top of the LCIF, load paper, and close the door.



22 Press the Tray button on the printer control panel to select the LCIF for paper feeding.

Use the Previous or Next button to highlight the LCIF on the graphic and then press Select and Offline.

2000-Sheet Large-Capacity Output Stacker

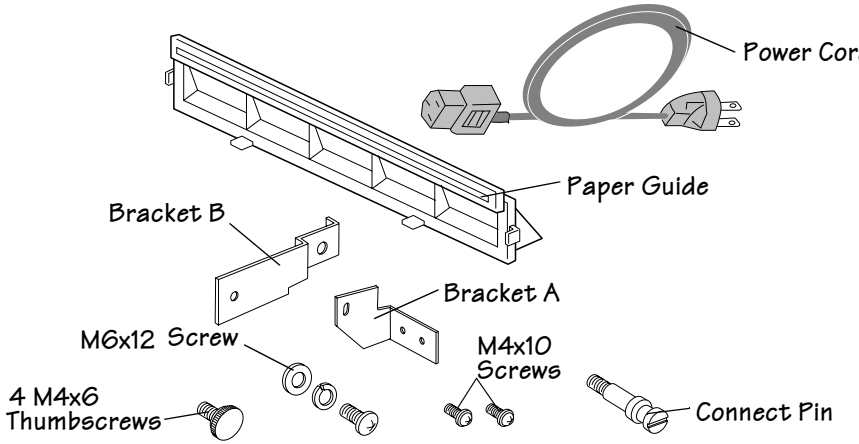
The Large-Capacity Output Stacker (LCOS) holds 2000 sheets and increases the paper output capacity of the printer to 2500 sheets.

What's in the Kit?

- 2000-sheet LCOS
- Interface Cable
- Output Stacker Hardware

Stacker Hardware Contents

After unpacking, check for the following LCOS hardware contents:



Make sure that all items are included in your shipment before setting up your LCOS. If any items are missing or damaged, contact your shipping company or your QMS vendor. See Appendix A, "QMS Customer Support," for product sales and support information.

Tools Required

To install the LCOS, you need the following tools:

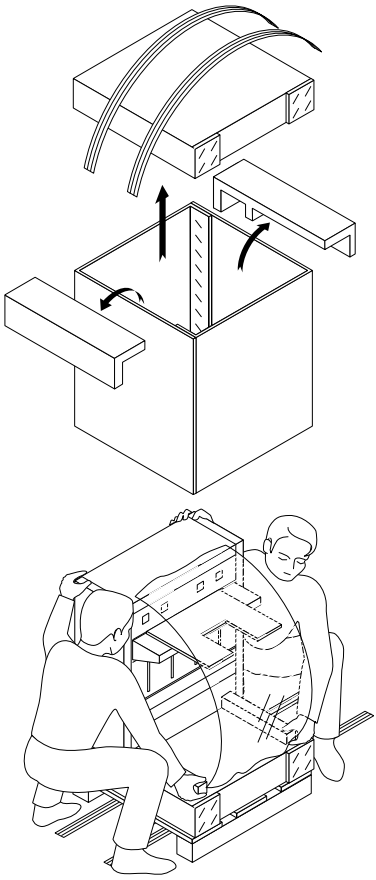
- #2 Phillips screwdriver
- Medium flat-blade screwdriver

Installation Procedure

WARNING: *The LCOS weighs approximately 90.5 lb. (41 kg). Do not attempt to lift or move it by yourself.*

ACHTUNG! *Der LCOS wiegt ca. 32 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen.*

1 Unpack the output paper stacker from the shipping box.

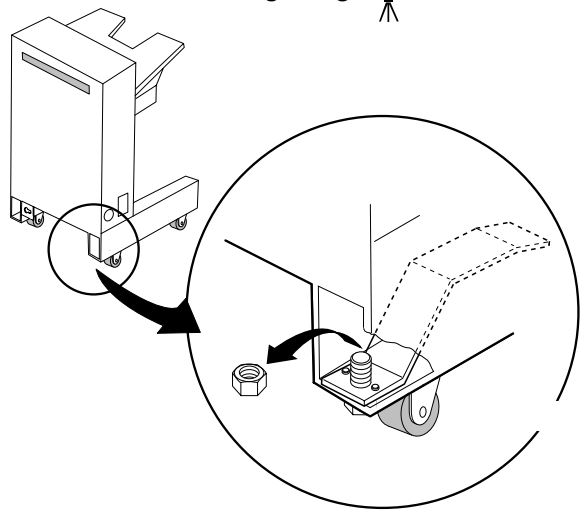


2 With the help of another person, carefully lift the LCOS from the box and place it on the floor.

3 Remove the plastic from the LCOS.

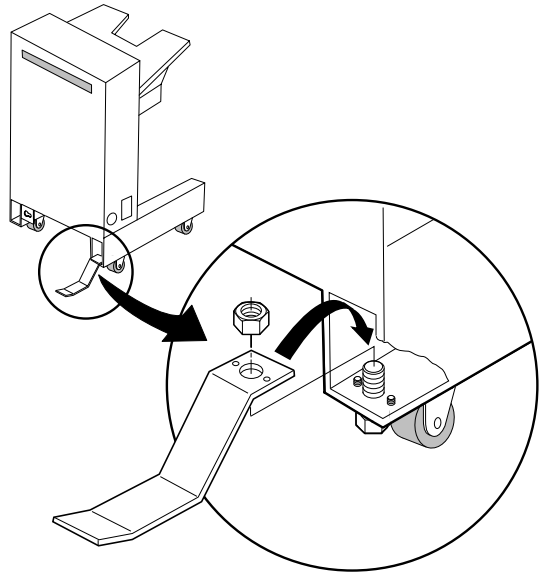
» **Note:** *Save all packing materials for possible repacking.*

4 Loosen the nut holding the Safety Tilt Bar from the back of the LCOS in the bottom right leg.

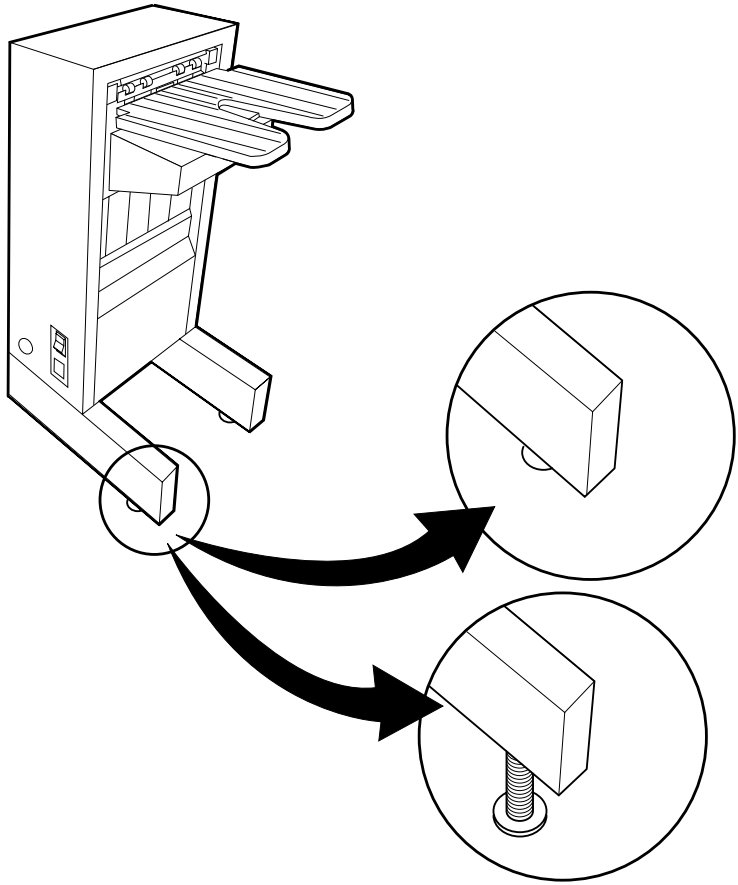


5 Remove the Safety Tilt Bar.

6 Turn the bar over and replace it in the reverse direction.

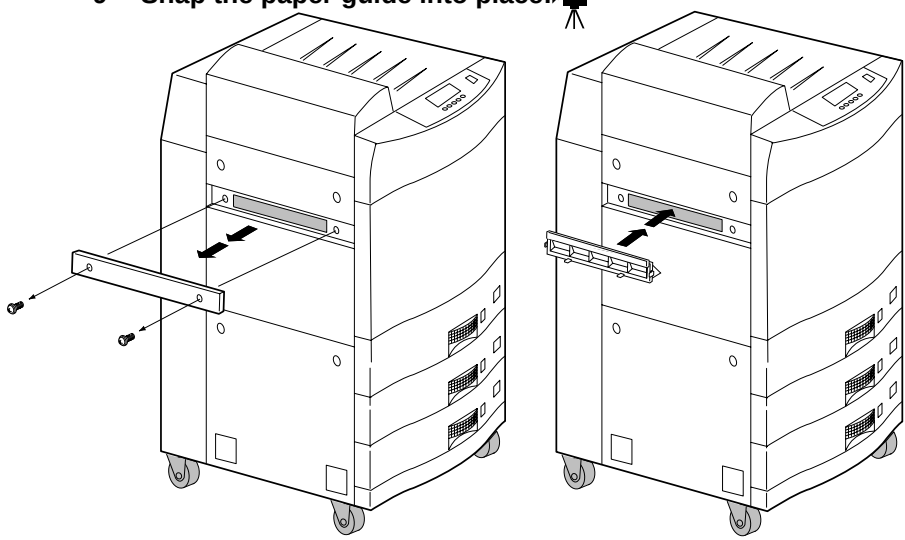


7 Raise the four leveling bolts on the LCOS.



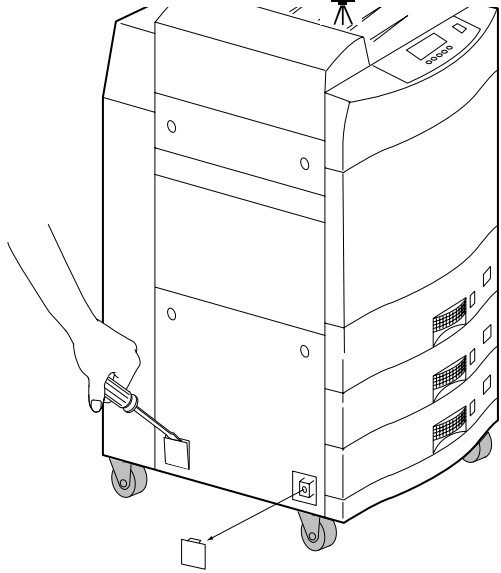
8 Remove the upper cover from the left side of the printer by removing two screws.

9 Snap the paper guide into place.

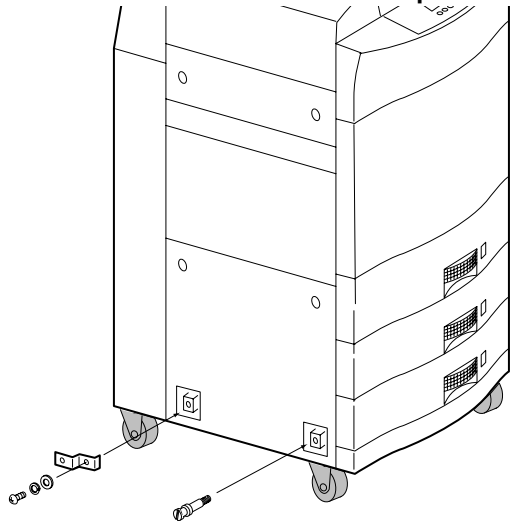


10 Locate bracket B and the connect pin included in the LCOS box contents.

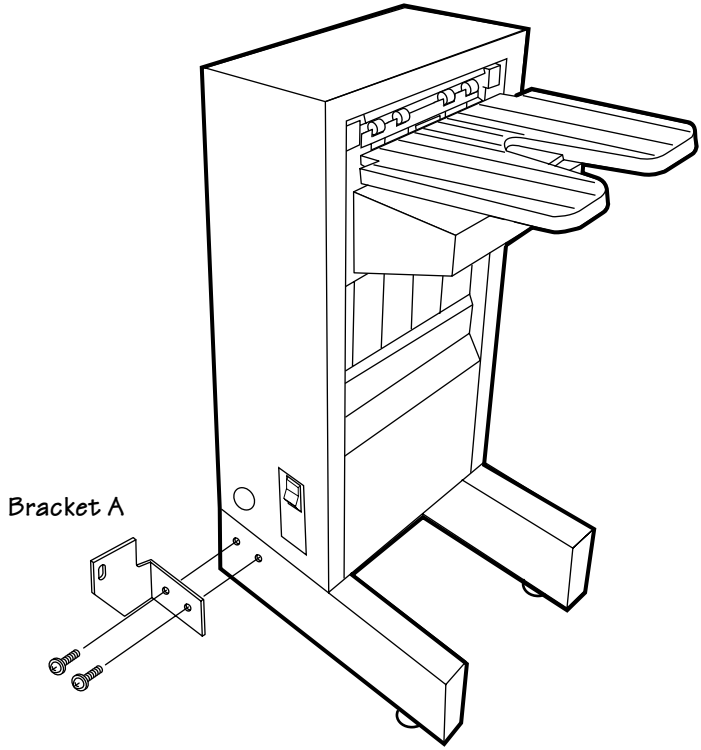
11 Use a small flat-bladed screwdriver to pop out the two small panels from the bottom cover.



12 Attach bracket B to the bottom left side of the printer with the M6x12 screw and fasten the connect pin.

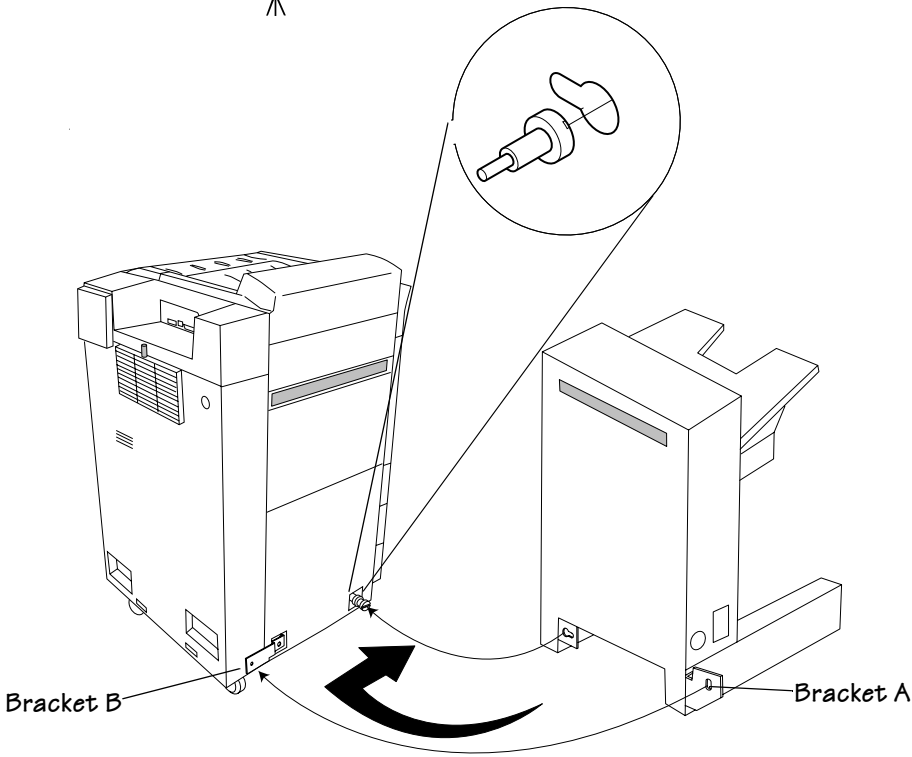


13 Attach bracket A to the bottom of the LCOS.



14 Position the LCOS so that its positioning hole is aligned with the connect pin on the printer.

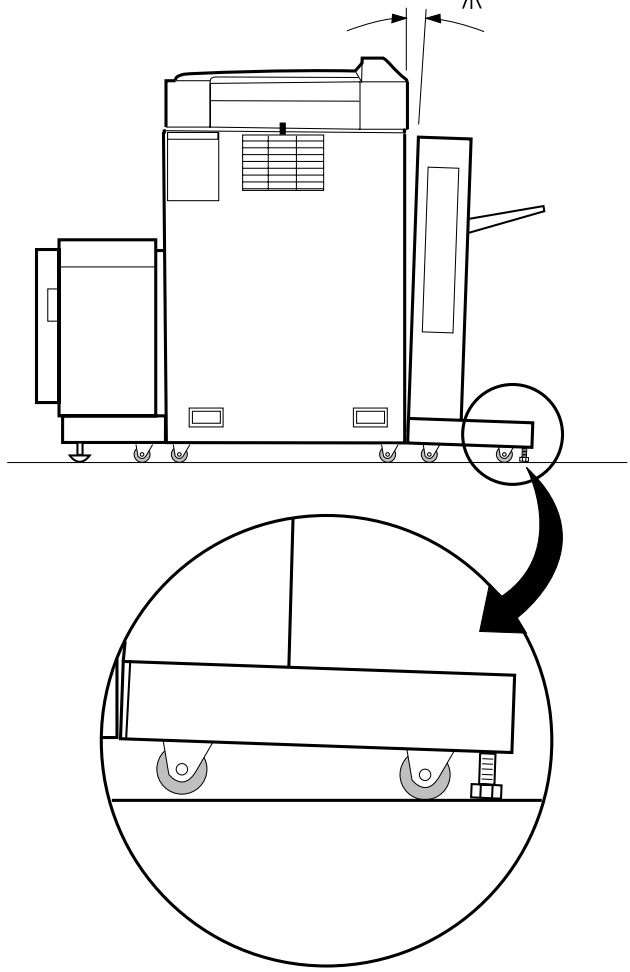
15 **Push the output stacker against the printer and fit the connect pin into the larger circular section of the LCOS positioning hole.**



16 **Push the LCOS toward to the front of the printer to lock the pins into the positioning holes.**

17 **Fasten bracket A to bracket B on the printer with the M4x6 hex type screw included with the LCOS contents.**

18 Turn the two front levelers counter-clockwise to tilt the top of the LCOS securely against the printer.



19 Plug the signal cable form the LCOS into the connector on the rear bottom-right of the back of the printer.

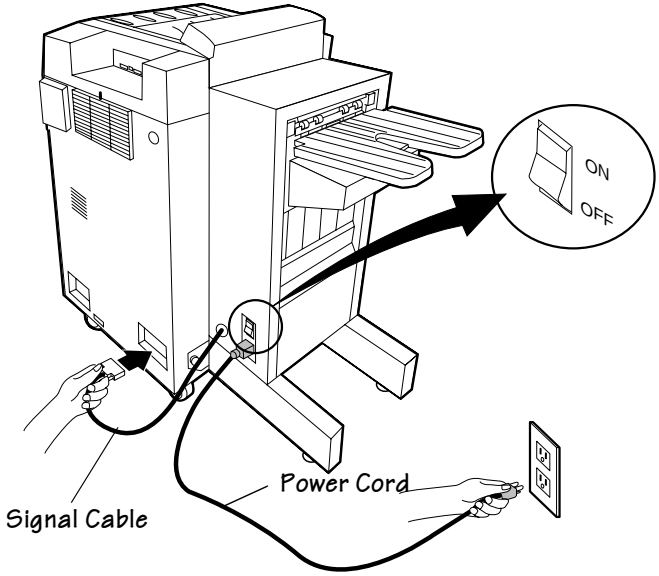
» **Note:** *Make sure the main power switch is in the off position.*

20 Connect the power cord plug to the AC connector on the LCOS and the other end to a grounded outlet.

WARNING: *This product is equipped with a 3-wire grounding type plug, a plug that has a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature and the LCOS can be damaged if the plug is modified to work in a non-grounded receptacle.*

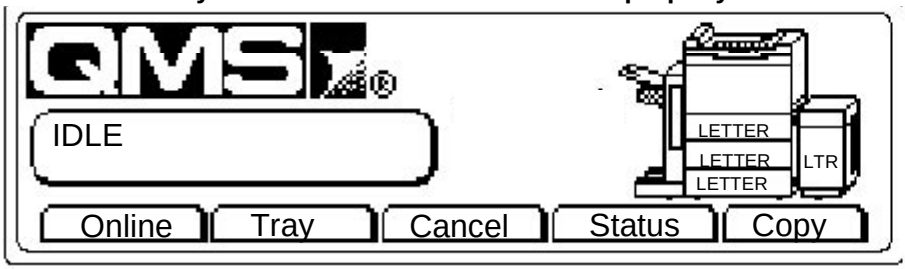
ACHTUNG! *Dieses Produkt ist mit einem 3-Phasen Stecker ausgeruestet. Bitte verwenden Sie unbedingt ein entsprechendes Gegenstueck, da es sonst zu Beschaedigungen kommen kann. Fuer den Netzanschluss dieses Geraetes ist ein geprueftes Kabel zu verwenden. Fuer einen Nennstrom bis 6A ist eine Leitung nicht leichter als H05VV-F3G 0,75 mm² oder H05VVH2-F3G 0,75mm² einzusetzen.*

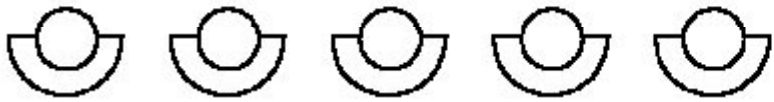
21 Turn on the main power switch on the LCOS, and then turn on the printer.



» **Note:** *If the message panel displays an error message when you turn on the power, try turning off the LCOS and printer and turning on the LCOS again and then the printer.*

22 Check the printer display panel for the LCOS graphic. This lets you know the LCOS is connected properly.





23 Select the LCOS as the output bin through the Operator Control/Outputbin configuration menu.

3000-Sheet Large-Capacity Output Stacker

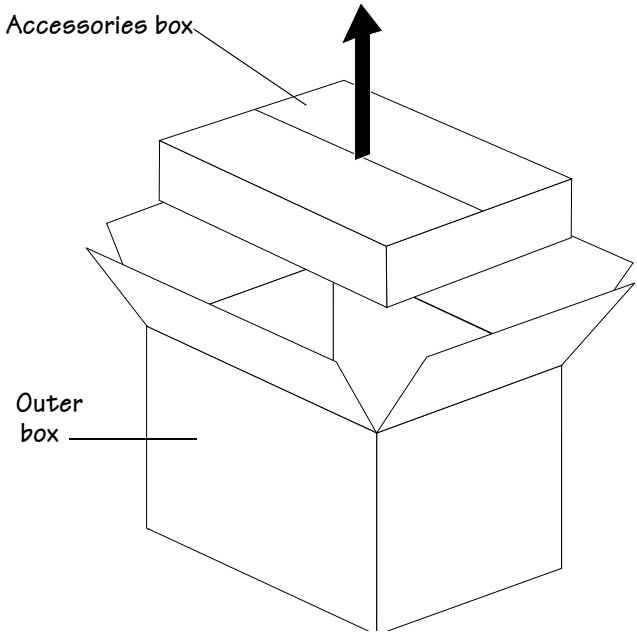
The 3000-sheet Large-Capacity Output Stacker (LCOS) holds 3000 sheets and increases the paper output capacity of the printer to 3500 sheets.

What's in the Kit?

- 3000-sheet LCOS
- Interface cable
- Output stacker hardware

Unpacking the 3000-Sheet LCOS

1 Remove the accessories box from the outer box.

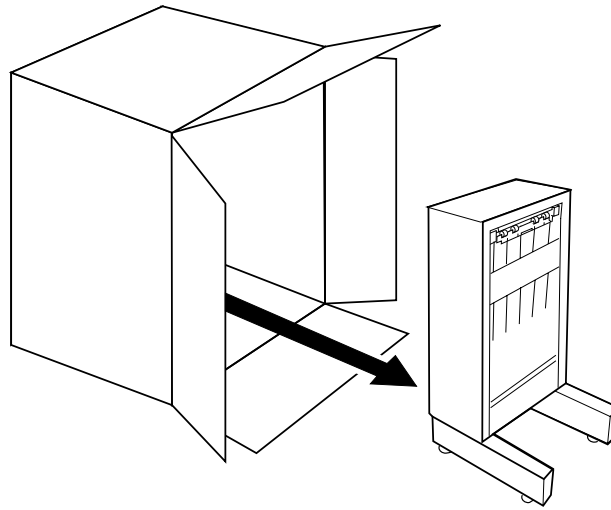


2 Remove the power cable.

3 Set the box upright and remove the cardboard positioned on top of the LCOS.

» **Note:** *The legs and casters should be on the bottom of the box.*

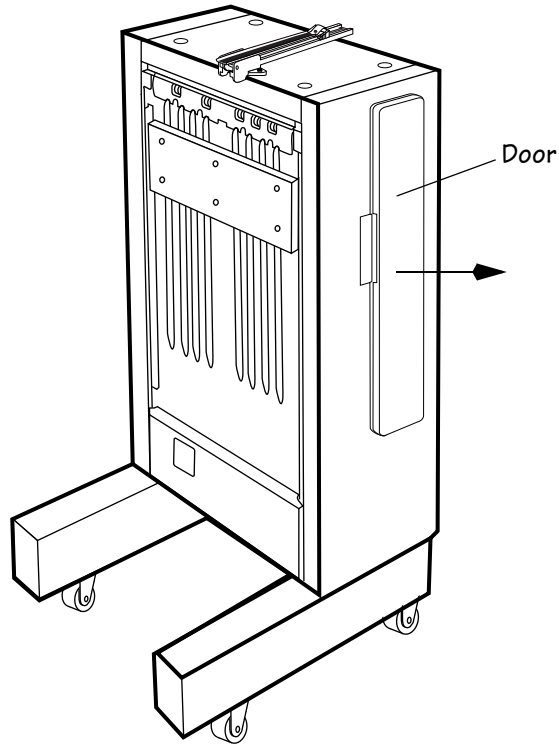
4 Firmly grasp the top and bottom of the LCOS and roll it slowly out of the box, ensuring that the LCOS doesn't fall back as you do so.



5 Remove the packing tape and the plastic from the LCOS.

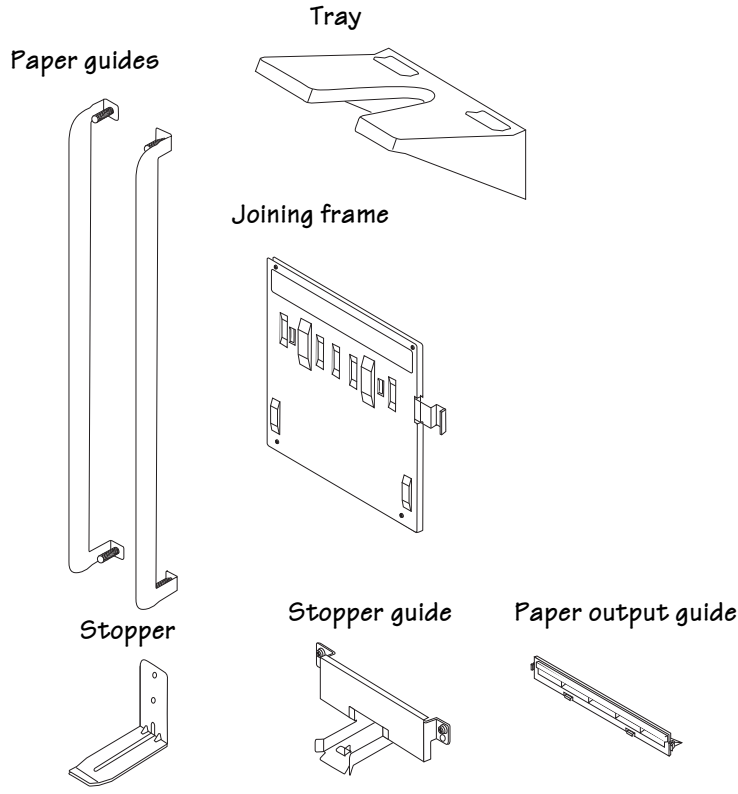
» **Note:** *Save all packing materials in case you ever need to move or ship the LCOS.*

6 Open the LCOS door and remove the tape on the paper guides inside the LCOS.



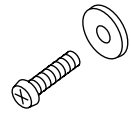
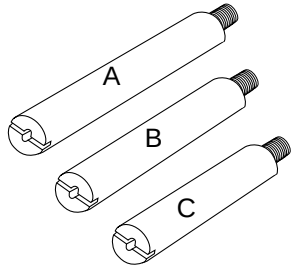
Hardware Contents

After unpacking, check for the following LCOS hardware contents:



Make sure that all items are included in your shipment before setting up your LCOS. If any items are missing or damaged, contact your shipping company or your QMS vendor. See Appendix A, “QMS Customer Support,” for product sales and support information.

The following table shows the screws and bolts you need to install the LCOS. These are included with the LCOS accessories.

Screws and Bolts			
	Examples	Description	Quantity
		Screw and washer (M4 x 12)	6
		Screw M4 x 6	2
		Spacer bolts (A, B, C)	A = 1 B = 1 C = 2

Tools Required

To install the LCOS, you need the following tools:

- #2 Phillips screwdriver
- Medium flat-blade screwdriver

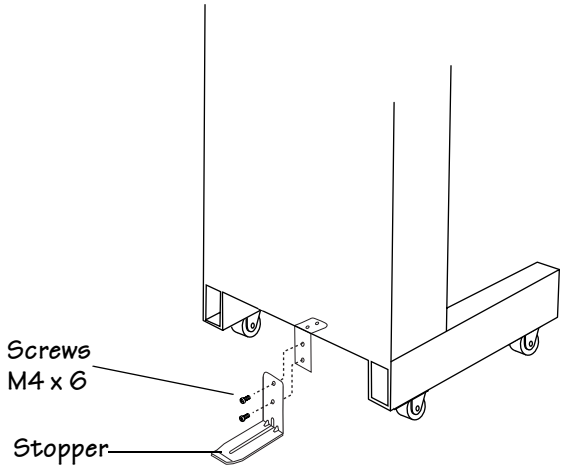
Installation Procedure

WARNING: *The 3000-sheet Large-Capacity Output Stacker weighs over 66 pounds (30 kg). Do not attempt to lift or move it by yourself.*

ACHTUNG! *Der LCOS wiegt ca. 30 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen.*

After unpacking is complete, use the following procedure to install the LCOS.

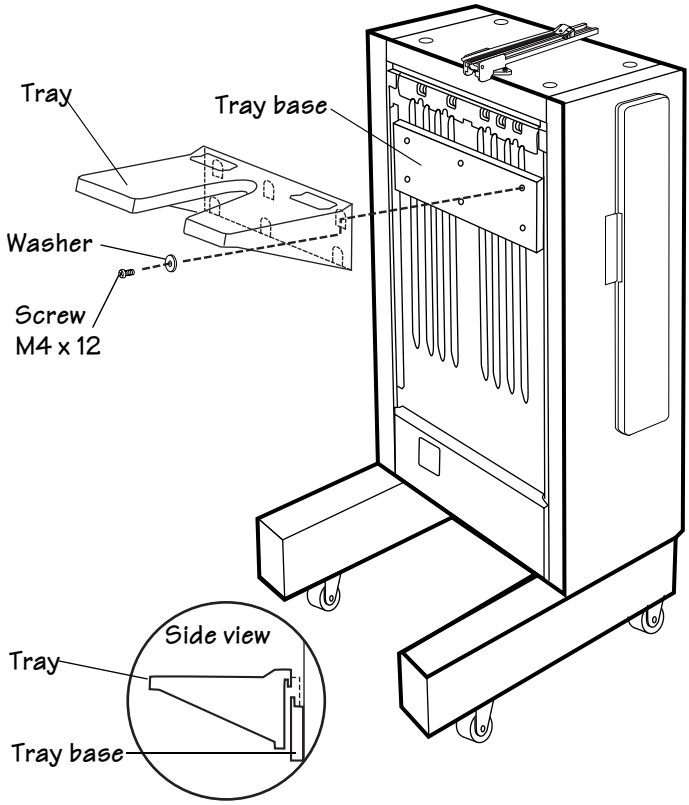
1 Attach the stopper to the lower rear of the LCOS using the two screws (M4 x 6).



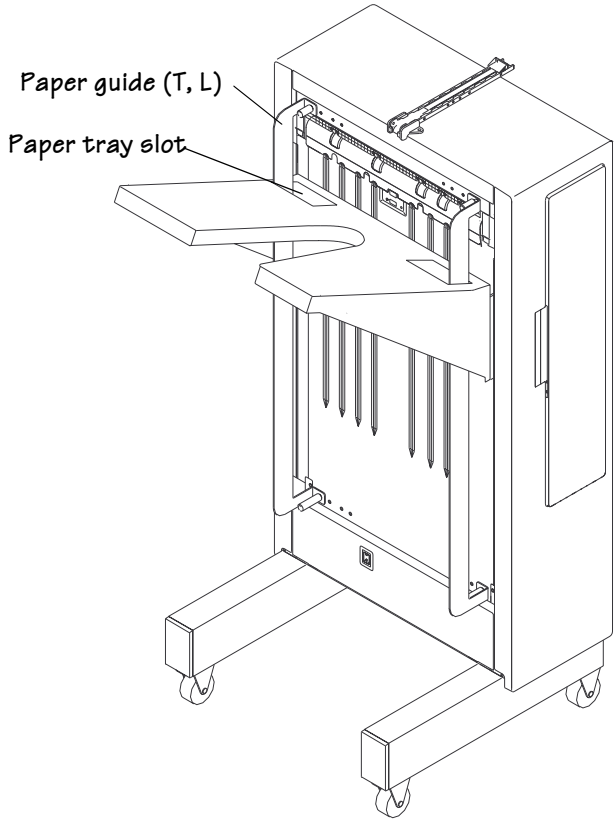
» **Note:** *The stopper prevents the LCOS from tipping backward.*

2 Slip the hooks on the back of the tray over the tray base, and then attach the tray to the tray base using the six screws (M4 x 12) and washers.

» **Note:** *The tray has six pre-drilled holes for the screws.*



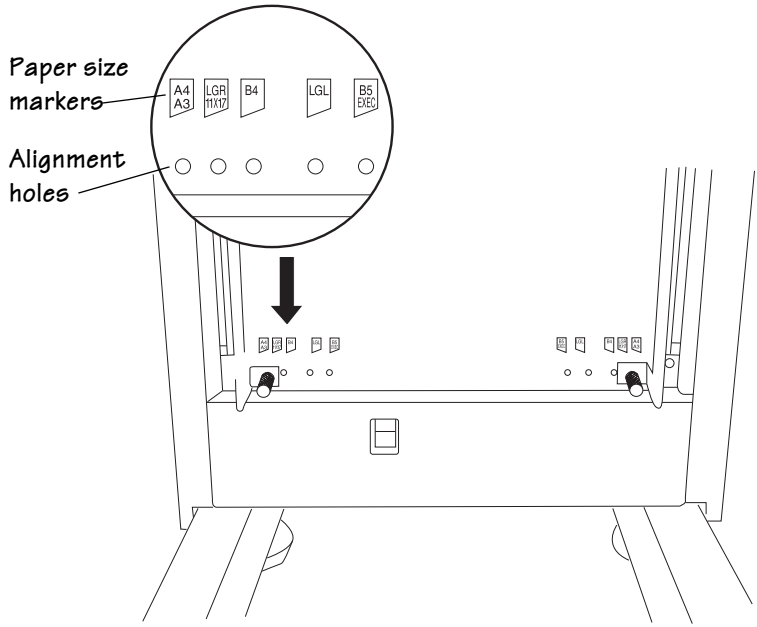
3 Locate the left paper guide, and slide it through the left slot of the paper tray.



The paper guides are labeled T,L for top-left and T,R for top-right. The shorter arm should be on top, and the flange should point inward.

4 Locate the paper size markers and the alignment hole that corresponds to the desired paper size.

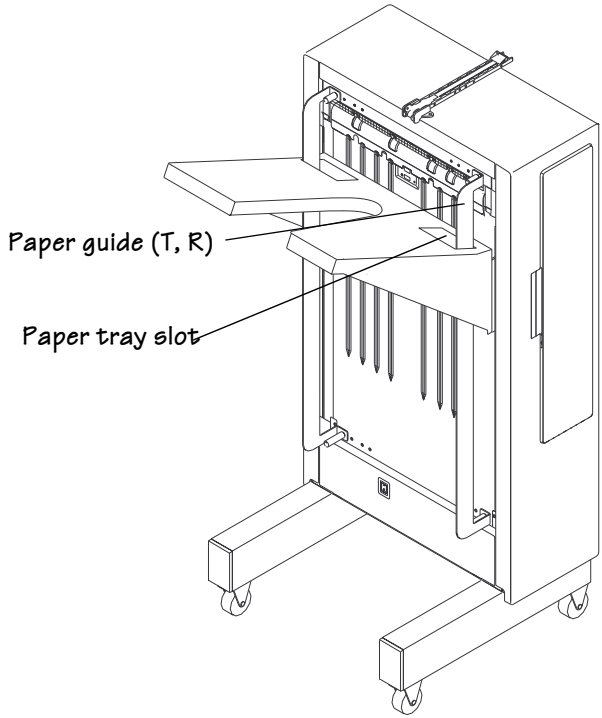
» **Note:** *Paper size markers appear on both the top and bottom of the LCOS.*



» **Note:** *When you first install the LCOS, we recommend that you set the paper guides as far apart as possible (A3/A4 setting). There is no need to adjust the guides unless the LCOS experiences paper stacking problems.*

5 Using the paper size markers as a guide, attach the paper guide to the LCOS with the knurled screws.

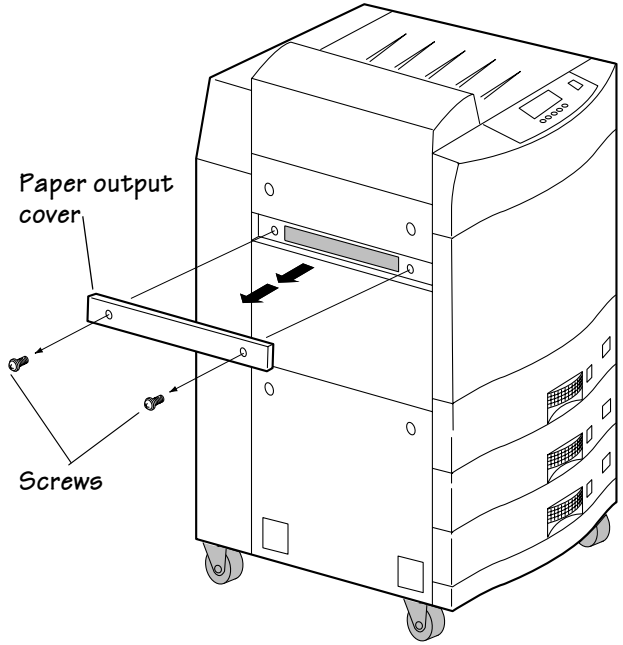
6 Repeat steps 3 through 5 for the right paper guide.



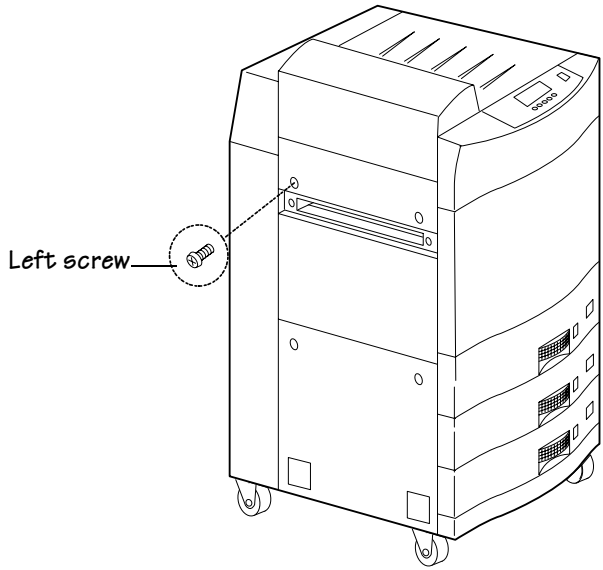
Preparing the Printer

After assembling the LCOS, prepare the QMS 4060 Printer for attachment of the LCOS.

1 Remove the paper output cover from the printer by removing two screws.

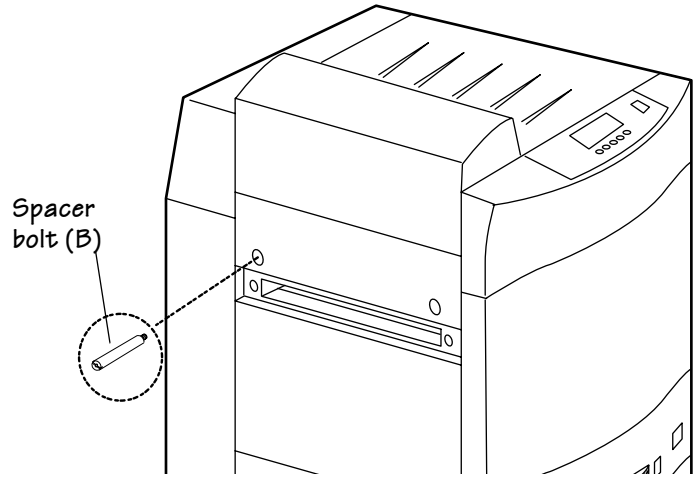


2 Remove the left screw in the upper cover.

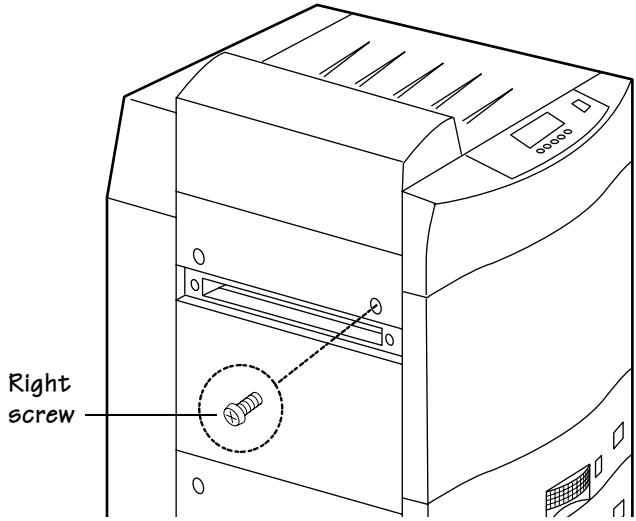


3 Insert spacer B bolt into the hole in the upper cover where you just removed the screw

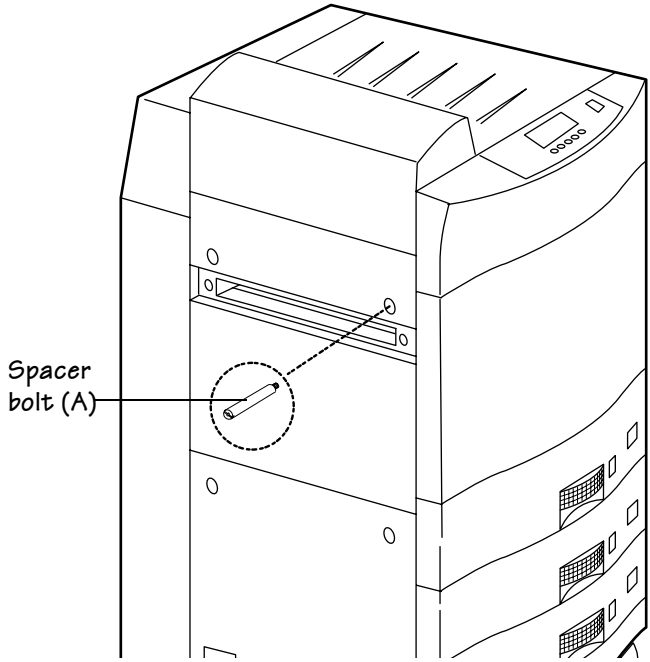
» **Note:** *The bolts are labeled. Make sure you use the correct bolt.*



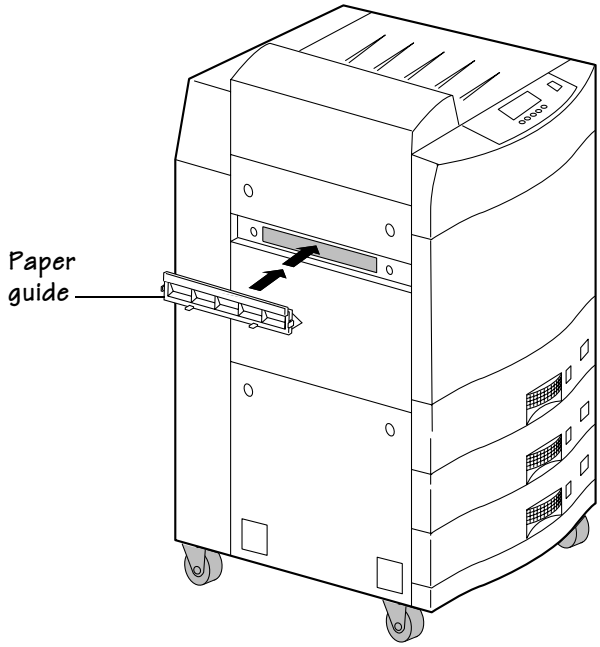
4 Remove the right screw in the upper cover.



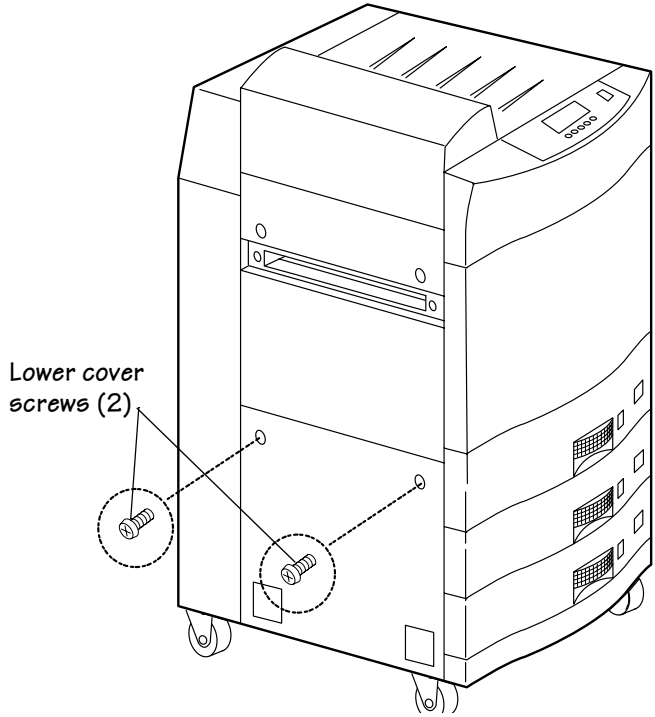
5 Insert spacer bolt A into the hole where you just removed the screw.



6 Snap, the paper guide into place.

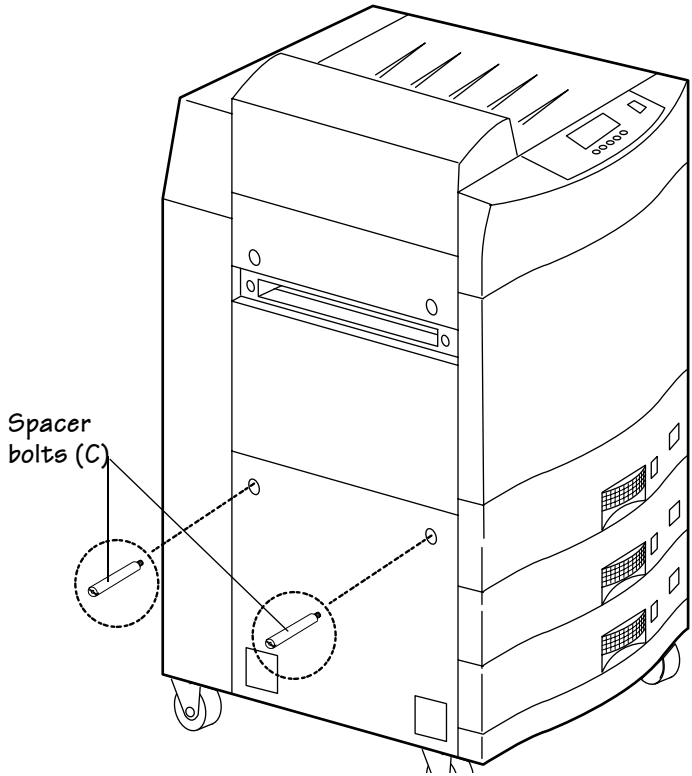


7 Remove the two screws in the lower cover.



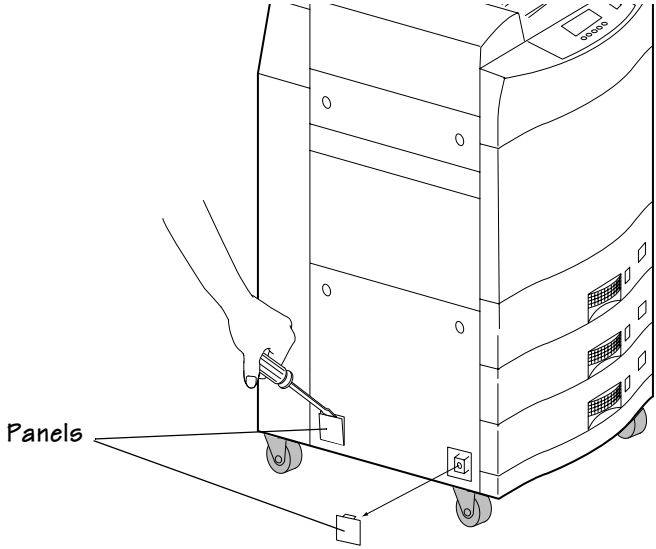
8 Insert the two C spacer bolts into the lower cover holes where you just removed the screws.

» **Note:** *The bolts are labeled. Make sure you use the correct bolt.*

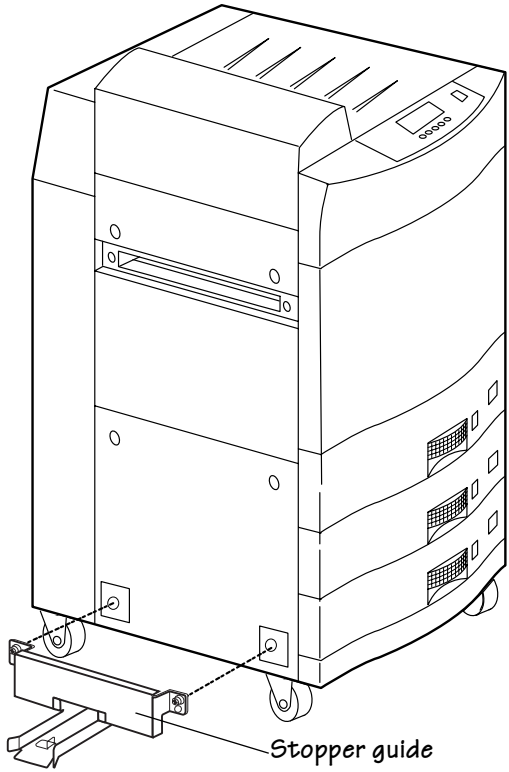


The spacer bolts are labeled. Make sure you use the correct bolts.

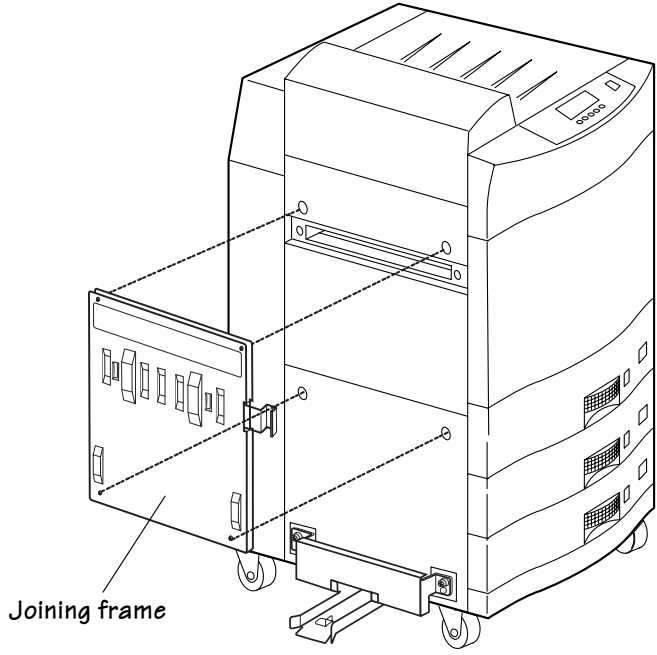
9 Use a small flat-bladed screwdriver to pop out the two small panels from the bottom cover.



10 Use the two knurled screws (captive) to install the stopper guide where the square panels were located.



11 Use the four knurled screws (captive) on the joining frame to attach the joining frame to the spacer bolts.

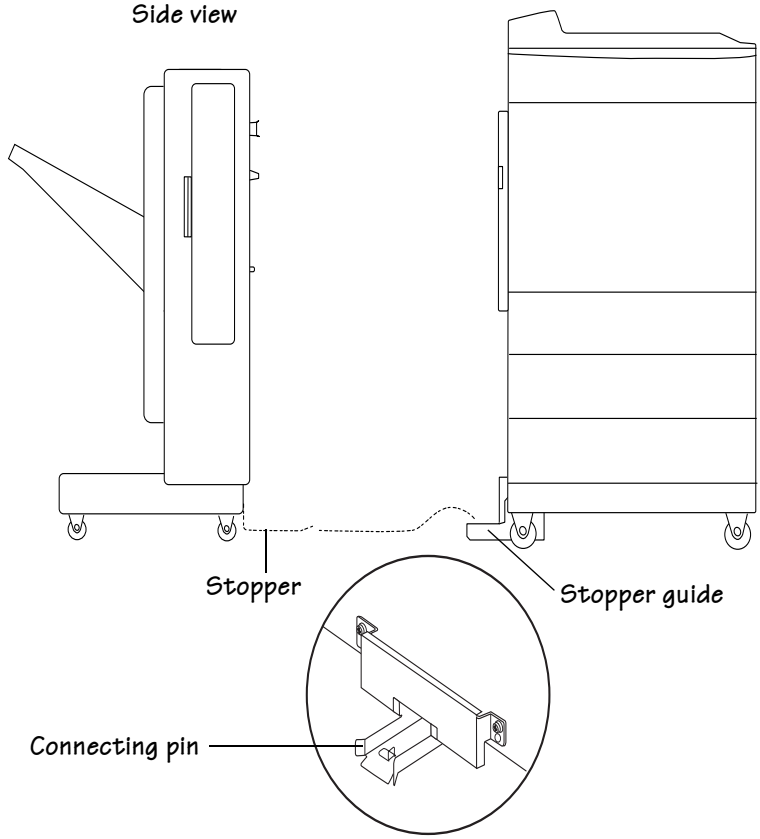


Connecting the 3000-Sheet LCOS to the Printer

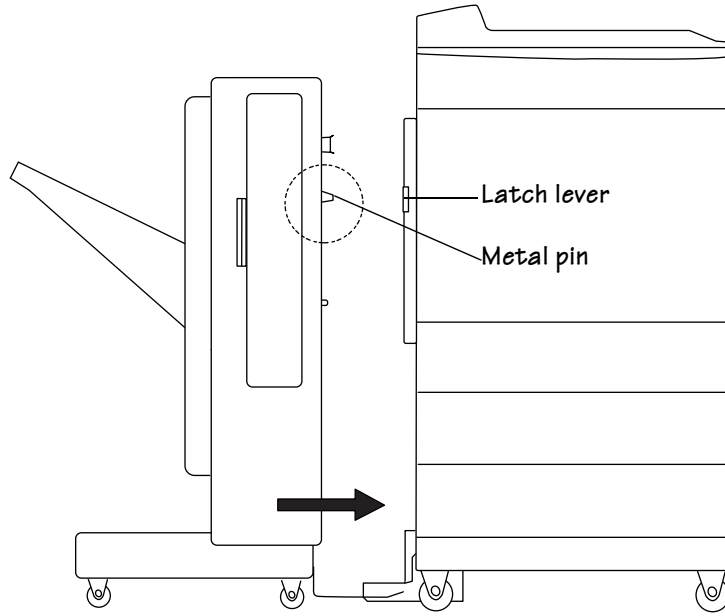
After assembling the LCOS and preparing the printer, you're ready to attach the LCOS to the printer.

1 Roll the two units together.

2 Lift the LCOS a little to make sure that the connecting pin on the stopper guide is aligned with the stopper hole on the LCOS, and then push the LCOS against the printer.



The two metal pins on the back of the LCOS are connected to the corresponding holes in the joining frame, and the printer latch is engaged.

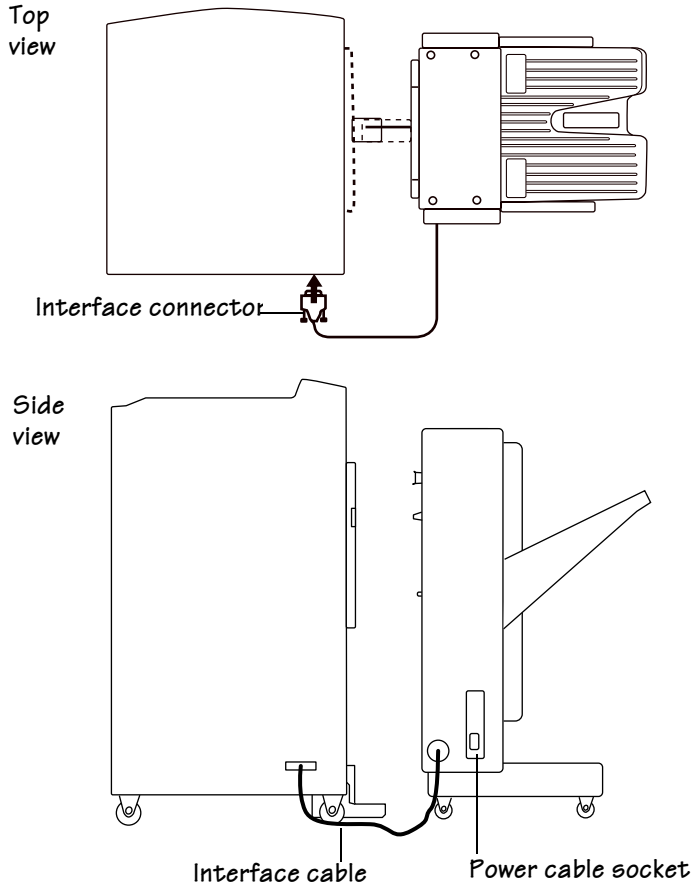


» **Note:** *To disconnect the LCOS from the printer, pull the latch lever towards you and move the LCOS away from the printer.*

Connecting Cables and Turning on the LCOS

Once the LCOS and printer are attached, you're ready to connect the interface cable and power cable.

1 Plug the interface cable from the LCOS into the connector on the back of the printer near the bottom.



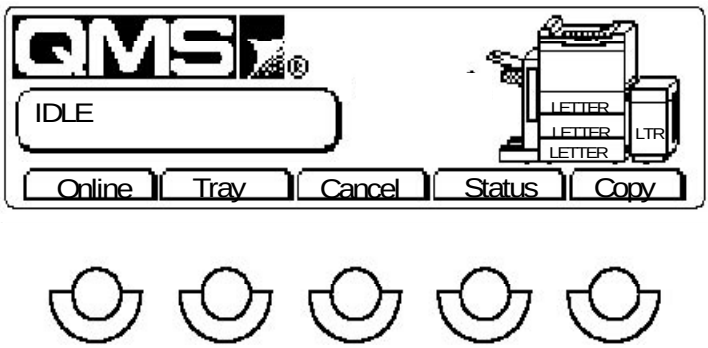
2 Plug one end of the power cable into the LCOS and the other end of the cable into a grounded outlet.

3 Turn on the LCOS power switch.

The power switch is on the lower-front of the LCOS. It takes a few seconds for the LCOS to perform power-up diagnostics.

4 Turn on the printer.

5 Check the printer display panel for the LCOS graphic. This lets you know the LCOS is connected properly.



6 Select the LCOS as the output bin through the Operator Control/Outputbin configuration menu.

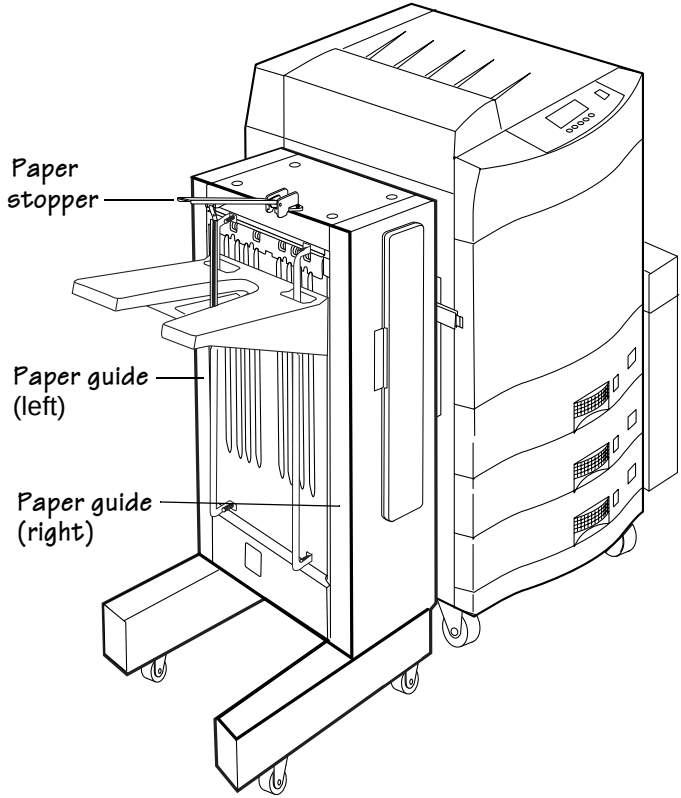
Using the 3000-Sheet Large-Capacity Output Stacker

This section provides information on how to adjust the paper stopper and paper guides on the LCOS.

Adjusting the Paper Stopper

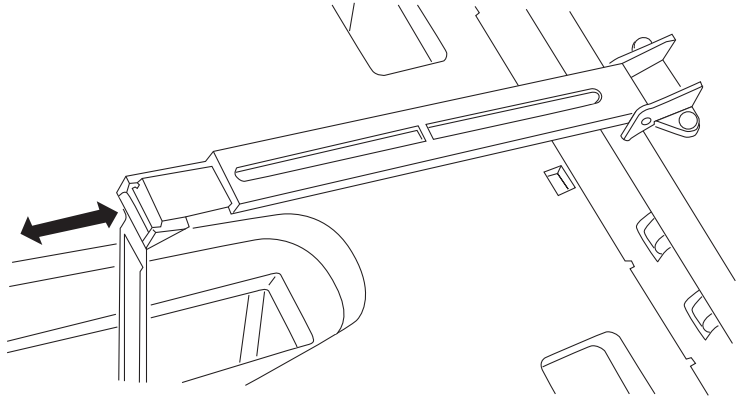
After you install the 3,000-sheet LCOS, adjust the paper stopper to fit the size of paper you're using.

1 Locate the paper stopper on top of the LCOS and position it as shown.



2 Locate the paper size markers on the stopper, and slide the paper stopper to the desired paper size

» **Note:** *If you're printing on A3 or Ledger paper, you don't need the paper stopper. Lift the paper stopper up and out of the way..*



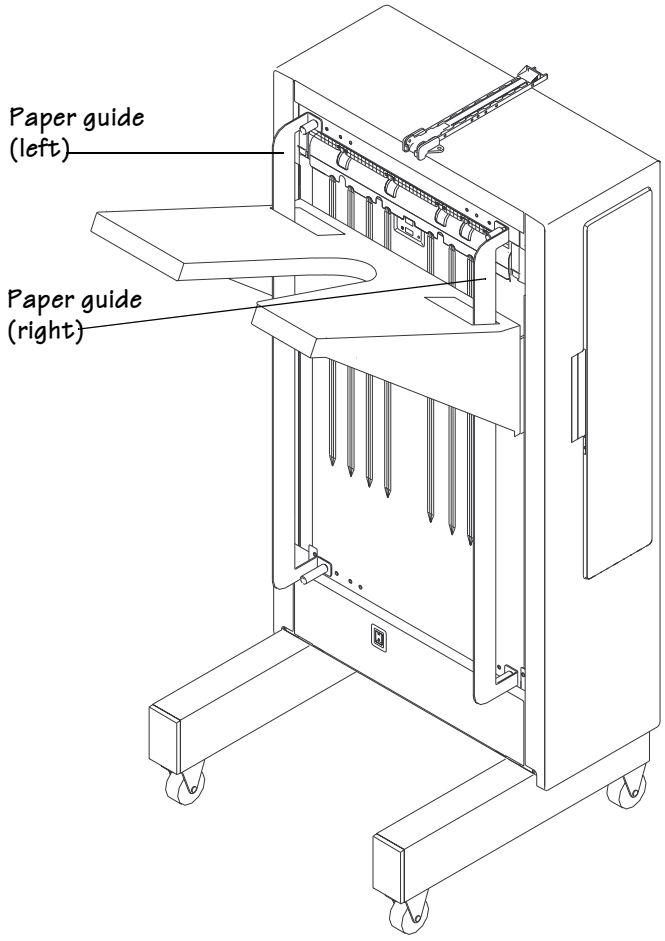
Paper size choices are Legal, Executive, B5, and A4/LTR.

Adjusting the Paper Guides

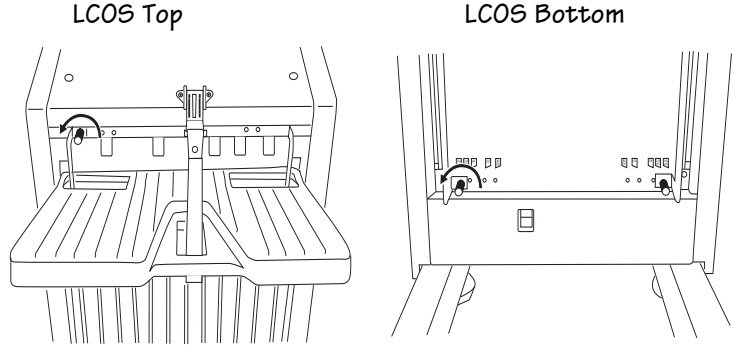
» **Note:** *We recommend that you set the paper guides as far apart as possible. There is no need to ajust the guides unless the LCOS experiences paper stacking problems.*

1 Locate the paper guides on the LCOS.

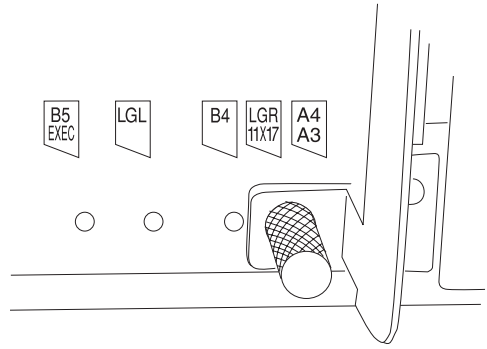
There are two paper guides, one on each side of the LCOS.



2 Release a guide by unscrewing the knurled screws (captive) that connect the guide to the top and bottom of the LCOS.



3 Use the paper size markers at the top and bottom of the LCOS to reposition the guide to the desired paper size.



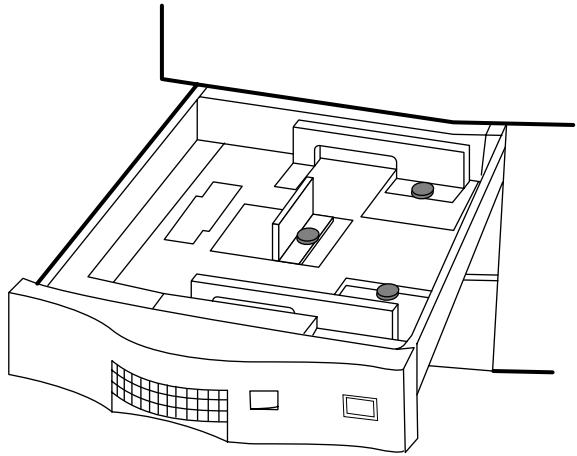
4 Tighten the knurled screws (captive) to reattach the guide to the printer.

5 Repeat this procedure for the guide on the other side of the LCOS.

Make sure that you select the same paper size for each guide.

Custom Tray

The custom input tray on your QMS 4060 Print System allows you to print three more paper sizes—Statement, B4(ISO) and B5(ISO). This tray also supports all the normal paper sizes supported on the standard trays.

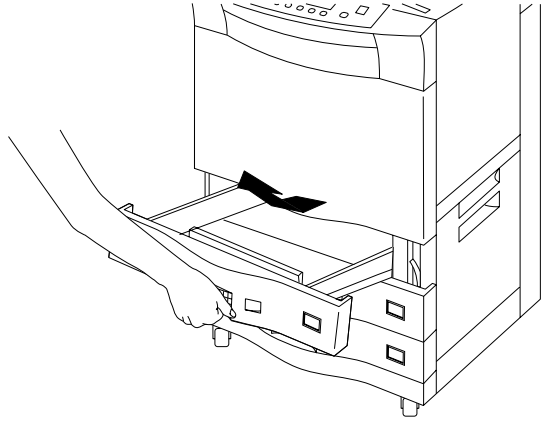


Installation of the tray involves replacing one of the standard input trays. Follow this procedure to install and set up your custom tray.

Custom Tray Installation

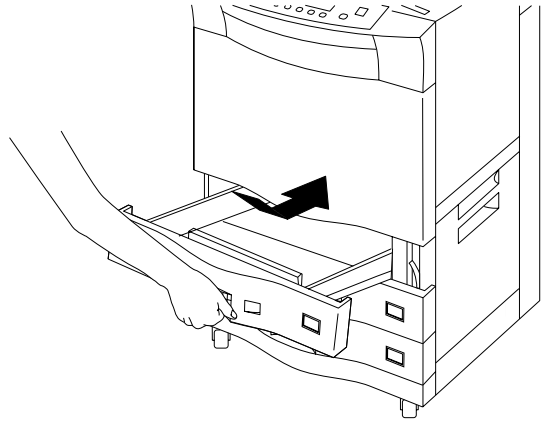
1 Pull out the standard tray until it stops.

2 Lift up and remove the paper tray.

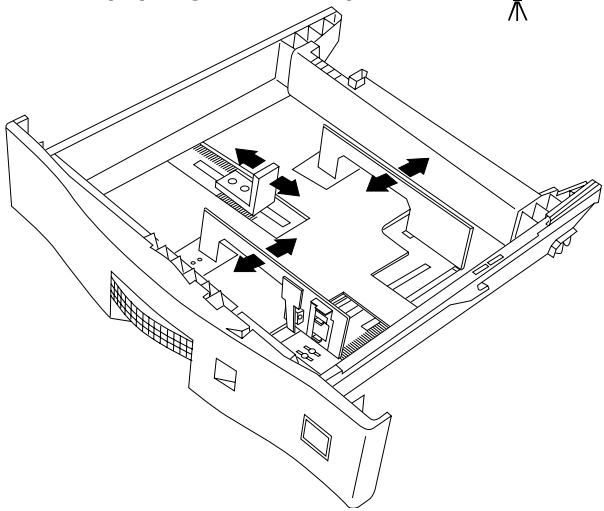


» **Note:** *The custom tray can be installed in any of the three standard tray positions—upper, middle, or lower. The printer can support up to three custom trays.*

3 Insert the custom tray at an angle, then lower it and push it in.

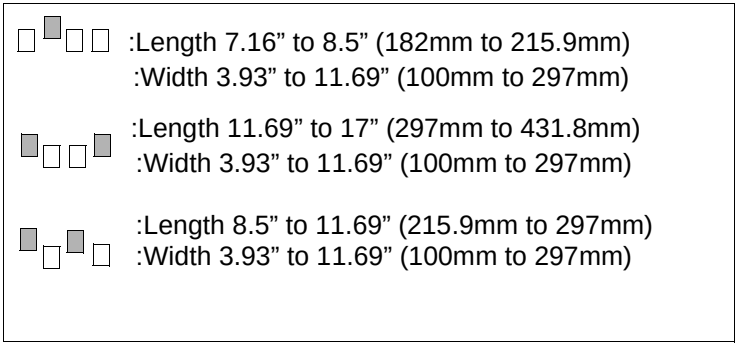


4 Slide the paper guides to fit your media.



5 Place your custom sized media in the custom tray. The height of the media stack should not exceed the full mark on the paper guides.

6 Set up the tray media size tabs on the rear of the custom tray. Use the following chart for reference or the label attached to the paper tray.


:Length 7.16” to 8.5” (182mm to 215.9mm)
:Width 3.93” to 11.69” (100mm to 297mm)
:Length 11.69” to 17” (297mm to 431.8mm)
:Width 3.93” to 11.69” (100mm to 297mm)
:Length 8.5” to 11.69” (215.9mm to 297mm)
:Width 3.93” to 11.69” (100mm to 297mm)

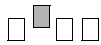
- Tab is moved forward

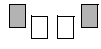
- Tab is moved backward

7 Access the Operator Control/Custom Input Bins configuration menu to select the paper size for the custom input bin.

Standard Paper Sizes

Your custom tray can also feed standard paper sizes. You must make sure that your application paper size setup is the same as the paper that is loaded in the custom tray. Follow the tab setting in this table to set up the custom tray for standard media sizes.

Tray Tabs	Standard Media Size
	Letter, Executive, A4, A5, Statement

Tray Tabs	Standard Media Size
	B4, Legal, 11”X17”, A3, B4(ISO)
	B5, B5(ISO)

Access the Operator Control/Custom Input Bins configuration menu to select the standard paper size for the custom input bin.

▲ **Caution:** *If you do not set up the paper size in the Operator Control/ Custom Input Bins menu, the printer could select an incorrect paper size and your image will not be positioned correctly on the page.*

Security Key

▲ ***Caution:*** *Even though both the security and serial options have a DB-9 interface, the connectors are keyed and they can’t be interchanged. Make sure that you install the security key only in the slot marked* ***SECURITY*** *on the back of the printer.*

An optional security key is available to password protect the Operator Control and the Administration menus. When a security key is installed, the Installation menu appears in the printer's menu structure.

What’s in the Kit?

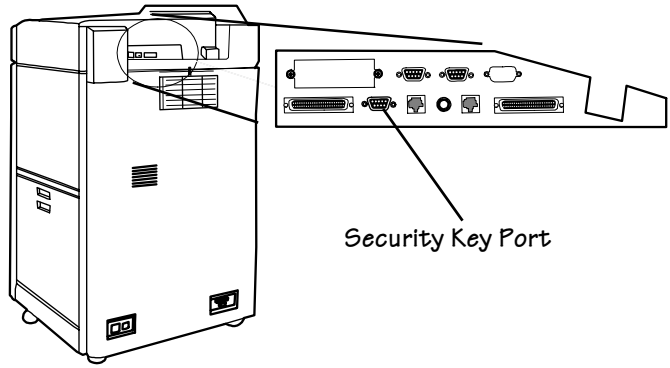
- A security key (9-pin connector labeled security)

Procedure

The security key port is located on the interface panel of the printer. To install a security key, use the following procedure:

1 Make sure the printer is off line.

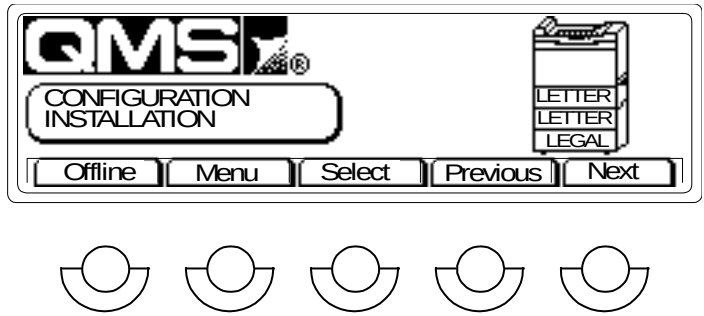
2 Insert the security key into the port.



3 Press the Online button to put the printer off line.

4 Press the Menu button.

5 Press the Next button until the message window displays



6 Press the Select button.

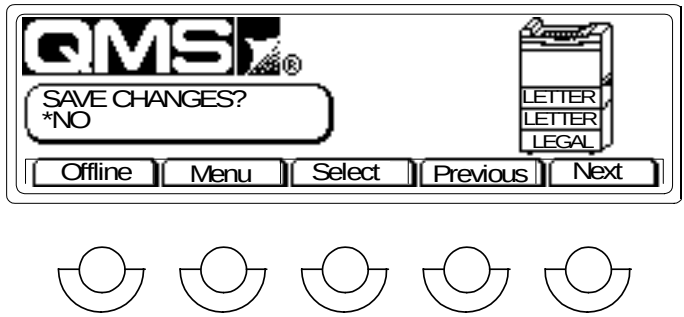
7 **Press the Next button to view the following options: Operator Passwrd, Use Operator Pwd, Admin Password, and Use Admin Pwd.**

8 **To protect the Operation menu, use the Operator Passwrd option to select the password, and then Use Operator Pwd to turn on this option.**

9 **To protect the Administration menu, use the Admin Password option to select the password, and then Use Admin Pwd to turn on this option.**

» **Note:** *Keep in mind that this same password protects the Admin mode of Remote Console, available through CrownAdmin.*

10 **Once passwords are activated, press the Menu button to exit the menu. The following message is displayed**



11 **Press the Next button until YES is displayed on the bottom line of the display window.**

12 **Press Select and remove the security button from the port.**

Once a menu is password protected, you cannot enter the menus or make changes in it until you enter a valid password. You'll know whether or not the menu is password protected when you press the Select button when trying to enter the menu structure. If the menu is password protected, `ENTER PASSWORD` appears on the message window. Passwords are entered as alphanumeric values. If you enter an invalid password, the message window flashes `INVALID PASSWORD` for three seconds, and then returns

to the parent menu. If you forget the password, your system administrator can easily recover it by following the installation procedure again. When the correct password is entered, the submenu displays. The password for these two menus may be the same or different. See “Installation Menu” in chapter 4, “Printer Configuration," in the *Reference* manual for more information.

» **Note:** *Password protection does not prevent software commands from changing functions.*

❖

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